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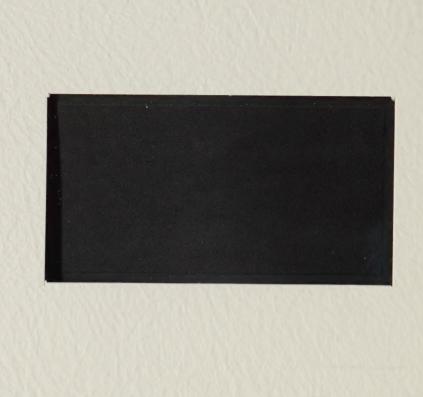
UNIVERSITY OF OTTAWA

BRIEF TO THE

COMMITTEE ON UNIVERSITY AFFAIRS

NOVEMBER 1970

UNIVERSITÉ D'OTTAWA UNIVERSITY OF OTTAWA



UNIVERSITY OF OTTAWA

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COMMITTEE ON UNIVERSITY AFFAIRS

NOVEMBER 1970



TABLE OF CONTENTS

			AGENDA ITEMS	PAGE
l.	Revi	ew of	Current Programs	
	(a)	to co- other (i)	iption of efforts by the University -ordinate program offerings with Provincially-Assisted Universities: At the undergraduate level	1.1
	(b)	enrol	led presentation of graduate ment data: Enrolment in 1969-70 and 1970-71 (estimated) of masters' and doctoral candidates - as per Form A	1.7
		(ii)	Sources of intake of new graduate students in 1969-70 and 1970-71 (estimated) - as per Form B	1.12
		(iii)	Degrees awarded, by level, (masters' and doctorate) in each academic year from 1964-65 to 1969-70 (actual) and 1970-71 to 1975-76 (estimated and projected - as per Form C This should be supplemented with a comment by the University as to whether the pattern of masters' degrees (thesis vs non-thesis has changed over the years.	1.17
		(iv)	Projections of enrolment year by year for the next five years - as per Form D. - This table should be supplemented with an explanation by the University as to how such projections can be reconciled with those for the entire Province.	1.21
		(v ')	Sources of support for graduate students enrolled in 1969-70 - as	1 05
			per Form E	1.27

(c)		al and Honours programs in Arts cience.	
	(i)	Outline the University's attitude regarding continuing differentiation between general and honours programs	1.34
	(ii)	University comment on the effects of the adoption of a single weight for Arts and Science students for operating grant purposes.	1.36
·(d)	Healtl	h Science Programs (where applicable)	
	(i)	Enrolment (undergraduate and graduate) in each health science program, year by year, for 1969-70 (actual), 1970-71 (estimated) and 1971-72 to 1975-76 (forecast) - as per Form F	1.38
	(ii)	University comment on: - the relationship of forecast enrolment to Provincial need for health sciences personnel the possibility of expanding enrolment in each health sciences program with staff and facilities	
		now on hand or included in current forecast.	1.43
	(iii)	Total operating costs of each health sciences program, for 1969-70 (actual), 1970-71 (estimated) and 1971-72 to 1975-76 (forecast) and University comment as to sources of required funds to meet such costs - as per Form G	1.46
	(iv)	Outline of capital costs of University projects in the Health Sciences developed	
		during the past five years and/or contemplated for the next five years. Identify each project and indicate the scale and unit cost (per NASF), actual	
		or estimated, for that project	1.54
	(v)	Outline of uses of health sciences facilities for university programs other than health sciences programs	1.58
		Contract of the contract of th	

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2.	Facto	ors Af	fecting Levels of University Support	
	(a)		led presentation of types and sizes asses:	
		(i)	Summary of data submitted for C.P.U.O. survey - as per Form H	2.1
		(ii)	Outline of new approaches to teaching and learning being considered by the University and	
			the possible effects of such on class patterns at the University.	0 0
		(iii)	Comments on possible effects of educational teachnology on class patterns at the University.	2.9
			Cold or procedure to a constant of the cold of	
	(b)	Resour	rce Allocation - University Operating	
		(i)	Budget allocations for major salary and non-salary categories for the years 1969-70 (actual) 1970-71 (estimated) and 1971-72 (projected) - as per Form I	2.13
		(ii)	University comments on adequacy of patterns indicated in (i).	2.16
		(iii)	Outline of sources of revenue	
			and expenditures for ancillary operations for the years 1969-70 (actual) 1970-71 (estimated)	
			and 1971-72 (forecast) - as per Form J	2.18
	(c)	Effec	ts of the Academic Marketplace	
		(i)	University comments on general conditions in finding qualified faculty members.	2.20
		(ii)	Detailed outline of sources of new faculty appointed during the period 15th September, 1969, to 15th September, 1970, including citizenship status and country of first and last degree - as per	
			Form K	2.22

	(d)	Opera	ting and Capital Support	
		maint	versity comments on policy of aining differentiation between ting and capital assistance:	
		(i) (ii)	On a University basis	2.25
3.	Futu	re Pla	nning	
	(a)		ing of five year forecast (as submitted e fall of 1969).	
		(i)	Undergraduate enrolment forecast for each year to 1975-76 - as per Form L	3.1
		(ii)	Outline of changes in proposed developments since previous forecast, with documentation as to reasons for such changes, and new developments contemplated for 1975-76.	3.4
	(b)		al requirements - as per interm capital ting schedules (Forms M - 1 to 4)	3.7
	(c)	Brief progr	descriptive outline of proposed new ams:	
		(i)	For 1971-72	3.17
		(ii)	For 1972-73	3.24
	(d)		ne of programs and/or courses to be ed or reorganized in 1971-72 and 73	3.34
	(e)	Unive	rsity views on effects on future planning	
		(i)	Capital formula standards as now applied	3.36
		(ii)	Changing secondary school patterns - Do attitudes differ among faculties of the University on this matter?	3.38



	(e)			
		(iii) (iv) (v)		3.38
	(f)	of in	rsity comments on possible effects creasing demand of student assistance the limited total resources available he support of higher education.	
		(i) (ii)	How can the relative priorities be decided?	3.49
	(g)	Stude	nt Housing.	
			What will be the University's requirements in student housing during the next five years?	3.50
1.	Othe	r Matt	ers	
	(a)	Missi	on Oriented Research	4.1
	(b)		ne of the University's policy on bligations of individual faculty rs	4.19
	(c)		matters - to be outlined at the etion of the University.	4.20



APPENDICES

- A. INTER-UNIVERSITY CO-OPERATION IN GRADUATE INSTRUCTION
 BETWEEN CARLETON UNIVERSITY AND UNIVERSITY OF OTTAWA
- B. DETAILED STUDENT ENROLMENT PROJECTIONS, 1970-75
- C. PROCEDURES FOR EVALUATION OF NEW PROGRAMS
- D. REPORT OF THE COMMITTEE TO STUDY THE INTEGRATION OF THE DEPARTMENTS OF MATHEMATICS OF THE FACULTIES OF ARTS
 AND OF SCIENCE AND ENGINEERING
- E. SUBMISSION TO THE STUDY COMMITTEE ON OSAP AND CORSAP STUDENTS' FEDERATION, UNIVERSITY OF OTTAWA



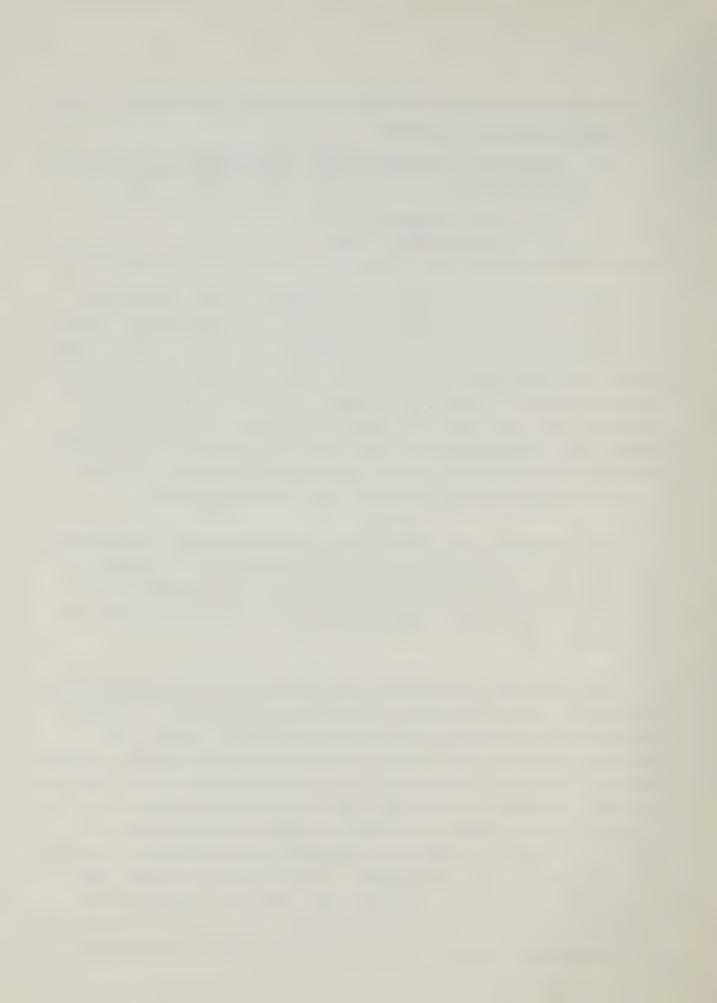
1. Review of Current Programs

- (a) Description of efforts by the University to co-ordinate program offerings with other Provincially-Assisted Universities:
 - i. At the undergraduate level.
 - ii. At the graduate level.

The University of Ottawa has a number of well-established programs at the undergraduate, graduate and professional levels. Since becoming a provincially-assisted university in 1965, every effort has been made to ensure that the introduction of new or more specialized program offerings is preceded by a thorough study of the local and provincial situation. At the graduate level, the establishment of the School of Graduate Studies has enabled the University to make considerable progress in developing new programs and courses in an integrated manner.

More recently, the proposal of the CPUO to form a standing Subcommittee on Academic Planning to advise on the planning of academic programs in Ontario universities was approved in principle by the Senate of the University at a meeting held on October 5, 1970.

The University recognizes that programs involving expensive equipment (having financial implications for technical staff, maintenance and space) and highly specialized courses and programs are two areas which, under the present economic climate, must be carefully scrutinized. In order to maintain as high an academic standard as possible with the funds available there has always been an informal "entente" between the University of Ottawa and Carleton University regarding the exchange of courses and reciprocal use of equipment. Recently this practice has been formalized at the graduate level with the signing of an agreement between the two universities. A copy of the terms of this agreement, procedures to be followed and the memorandum



sent to the Departmental Chairmen by the Dean of the School of Graduate Studies can be found in Appendix "A". At the undergraduate level a similar agreement is being negotiated and is expected to be signed shortly. This will mean that virtually all courses at either university will be open to the students of both institutions.

Apart from the numerous provincial bodies and associations which are concerned in varying degrees in the co-ordination of program offerings there are a number of specific areas involving courses, programs and facilities in which the University of Ottawa co-operates with other Ontario universities. There is an awareness at this University of the need to make conscious efforts to develop and implement sound academic programs without undue duplication. Some of the areas where co-ordination with other universities has been achieved are outlined below.

There has been co-operation between the University of Ottawa and Carleton University regarding computer facilities and recently the latter has purchased equipment (XBS Sigma VII) which will complement our Computing Centre's hardware which consists of an IBM 360-65. During the past year Carleton University has had a remote terminal giving it access to time on the hardware in our Computing Centre and there is a good possibility that this service will be reciprocated now that Carleton University has acquired its new computer. Also through the Computer Co-ordination Group Laurentian University was given time on our computer last year and there are negotiations underway in this regard with the University of Guelph.

The University of Ottawa has been developing a Communications and Instructional Media Centre during the past year and a half and there has been extensive co-operation with Carleton University regarding the joint use of facilities and of equipment. For example, the services of the film library which has been set up in the CIMC will be available to Carleton University with the



understanding that services will be provided in another area.

Through the Ontario Universities Television Council, the

University of Ottawa initiated discussions with a number of other

universities for the joint purchase of the film "Civilization".

This film has now been purchased with the University of Ottawa

acting as distributing agent. A number of other co-operative

film purchases are currently being negotiated.

SCIENCE AND ENGINEERING

The Department of Civil Engineering at the University of Ottawa and the Faculty of Engineering at Carleton University, are conducting a coordinated undergraduate program in the fields of water resources and highway engineering. One professor in the Department of Civil Engineering of the University of Ottawa is teaching a hydrology course to both University of Ottawa and Carleton University students. Laboratory classes are given at Carleton but all classes are conducted by the University of Ottawa. There are approximately 25 fourth year Civil Engineering students from the University of Ottawa and 40 students from Carleton University in the course. The Carleton University students are mainly fourth year Civil engineers but some geography and other students are also taking the course.

One professor in the Faculty of Engineering at Carleton
University is teaching a course in highway engineering to both
fourth year Civil Engineering classes. The lectures are at
Carleton University and the laboratory classes are at the
students'own University. All teaching assistants are from
Carleton University. There are also Carleton engineering students
enrolled in a pollution control course at the University of
Ottawa. Certain professors in Civil Engineering are also supervising Carleton students'fourth year thesis topics.

This coordinated undergraduate program has been established with the aim of allowing greater specialization of faculty



members at both universities and thereby increasing the quality of education in these fields.

The Department of Civil Engineering, for the past seven years, has had a joint program of graduate courses with Carleton University. Students from both universities share courses in geotechnical engineering and structural mechanics of design.

In the field of Biology there has been an exchange of students with Carleton in undergraduate courses such as histology, limnology, plant ecology and biometrics. At the graduate level, a course in molecular biology is being offered jointly with Carleton University. In Chemistry, a number of courses are given either by professors at the University of Ottawa and Carleton University or by scientists from the National Research Council for the benefit of students from both universities. In Biochemistry, the various departments in Ontario are studying the possibility of short term intensive courses, probably given during the summer. These courses would make use of the best experts of the province in a given area and would provide the students with a more comprehensive knowledge of Biochemistry.

In Mathematics, graduate courses to be given at Carleton University and at the University of Ottawa are coordinated prior to the start of the academic year to avoid duplication of courses and to provide for as wide a coverage as possible. In addition, graduate seminars are coordinated between the two universities and a number of such seminars given by invited outside speakers are jointly sponsored and funded. Finally, a summer research institute program in Mathematics has been discussed by the Chairmen of Mathematics Departments of Ontario Universities and will be implemented on a trial basis in the summer of 1971. The program is a cooperative one intended to provide meaningful graduate courses and research for graduate students and staff during the summer. Universities will take turns, within the limits of their capabilities to host these institutes with



assistance provided by all other Ontario universities.

The University of Ottawa has a Dynamitron Accelerator which was installed in the Physics-Mathematics Building in 1965.

There is a formal agreement between the University of Ottawa and Carleton University whereby professors and graduate students from both institutions have access to this equipment. Policies regarding its use are determined by a joint committee consisting of three (3) representatives from each university. A combined program exists with Carleton for graduate courses in nuclear physics which is related to the research projects involving the Dynamitron.

In Geology, a number of specialized courses are taught exclusively either at Carleton or at this University. For certain courses which overlap, these are given in alternate years between the two universities.

OTHER DISCIPLINES

In the Faculty of Law which includes both Common Law and "Droit Civil" a joint program is being developed which will coordinate with programs in law Faculties of Ontario and Quebec and thereby prepare students for graduate studies and for careers in federal law. The Common Law section of the Faculty participates with each of the other five law schools in Ontario in the use of teaching materials for similar courses. This is confined almost exclusively, but not entirely, to the use of casebooks produced at other schools in those subjects in which our Faculty does not have casebooks of its own. In turn the Faculty's casebooks (for five courses) are available to any of the other schools which may wish to use them. Besides casebooks, one or two of the other schools have produced films that are available to the other schools and it is planned to use this year two new films that are available from the University of Western Ontario. Also, there is agreement in principle among the law schools regarding the use of the computer data now stored



at Queen's University, but at this time detailed arrangements, particularly regarding the cost of transmission, are yet to be worked out.

Undergraduate programs in Sociology at the University of Ottawa and at Laurentian University have been coordinated with regard to the admission of students at the graduate level.

In Hospital Administration, the internship program for graduate students at McMaster University is well coordinated with the Masters degree in Hospital Administration offered by our Faculty of Management Sciences. A number of second year Masters candidates from this University are currently taking their internship in Hamilton.

The School of Physical Education at this University has been actively involved in the formulation of proposals by the Council of Directors of Schools of Physical Education in Ontario to establish a Ph.D. program in Physical Education with credits transferable between the participating universities.



1. Review of Current Programs

- (b) Detailed presentation of graduate enrolment data:
 - i. Enrolment in 1969-70 and 1970-71 (estimated) of masters' and doctoral candidates as per form A.

Please refer to Form A (pages 1.8 to 1.11) for details of graduate enrolment data for 1969-70 and 1970-71 (estimated) of masters' and doctoral candidates.

Our current graduate student registration forms do not ask for the immigration status of non-Canadian students and therefore it is not possible to provide information on the number of landed immigrants for 1969-70 and 1970-71. However, beginning in 1971-72 this information will be collected and will be available for reporting purposes.

Excluding landed immigrants, the aggregate figures for full-time graduate students indicate the following percentages of Canadian students during the past and current academic years.

YEAR		TOTAL FULL-TIME STUDENTS	% CANADIAN
1969-70	Masters' Doctoral	647 <u>175</u>	75.4% 51.4%
	Total	822	68.5%
1970-71	Masters' Doctoral	574 217	71.9% 56.5%
	Total	791	66.8%



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Chemistry, Physics, Geology. Mathematics. Chemical, Civil, Electrical, Mechanical Engineering. Biology, Biochemistry, Physiology, Anatomy, Histology and Embryology, Microbiology. Hospital Administration, Pathology, Pharmacology. Education, Physical Education, Kinanthropology. Civil Law, Library Science.
Chemistry, Ph Mathematics. Chemical, Clor Biology, Bioc Hospital Admil Education, Ph Civil Law, Li

1.

Do not include "qualifying year" students (as this term is defined in the Report on the Counting of Graduate Students).

Enrolment basis: Student numbers enrolled: "as at" December 1st of each year.

2. 3.

Enrolment reported for 1970-71 to be latest estimates available of 1970-71 actuals. An updated report incorporating Desamber 1st actuals is required by no later than Jammary 1st, 1971.

Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programmes at Ontario Universities in 1959-70 ---- " (C.P.U.O. Research Division, May 11, 1970). . 9



- (b) Detailed presentation of graduate enrolment data:
 - ii) Sources of intake of new graduate students in 1969-70 and 1970-71 (estimated) as per Form B.

Please refer to Form B (pages 1.13 to 1.16) for details of sources of intake of new graduate students.

For the reason indicated earlier, figures on the number of landed immigrants are not reported.

Excluding landed immigrants, it is seen that for 1970-71 72.5% of the new graduate students were Canadian compared to 66.8% for the total number of graduate students for the same year.



	DISTAIBUTT	DISTRIBUTION OF NEW REGISTERE	D CRADUATE	STUDENTS (FUL	TE ENROLMENT DATA	TA PART-THE)	PART-TIME) BY DISCIPLINE	AREA	AND CITIZENSHIP	Porm CUA - 70 -8	8-0
		Cenadian	Landed Immigrant			For	Foreign			Subtotal	TOTAL
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		1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1670-71	1970-71
ACCREGATE PIGURES											
Full-time: - Me	Mester's	356		10	Ŋ	25	54	11	14	119	475
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4	Doctoral	15	And the second s	0	0			O Company of Company Control Control	O make by your and transmit could be the contract of the contr	15.2	168
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BREAKDOWN BY DISCIPL	DISCIPLINE AREA (1)										
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Full-time: - Ma	Master's	41		ന ം	н с	o o	H 0	. N F	m r	en a	09
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- To	Total	5			0	A STATE OF THE PROPERTY OF THE			The state of the s	3	8
ESKELLIGS (Wistory, etc.)	, etc.) (2)										
Full-time: - Ma	Master's	, S		က	0	. 2	<mark>.</mark> -1	,0	Н	7	62
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		200 C	Landed Immierant			Foreign	fgn			Subtotal	Page TOTAL
		12 0501	1070-71	United States	United Kingdom 1970-71	Europe 1970-71	Asia 1970-71	Africa 1970-71	Other 1970-71	1970-71	1970-71
		7 / • 0 / 6 T	A 1 V V V A A A A A A A A A A A A A A A	TANGECHII CHANG MENGARCHATH MANAGAR	AVAILABILITY OF THE PROPERTY O	polinoret prominolatino-Gas, Castra Galdone	Annual destriction are an annual destruction of the control of the	PROCEAST AND	Community to 4 Terror to stop Lance co. p. or Line Scientific participations	conjumental transfer of the south for two transfer of the south for the	ANTICAL STATEMENT STREET, STRE
SOCIAL SCIENCES	SOCIAL SCIENCES (General) (continued)										
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	- Total	-		0	0	2	0		0	3	14
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SOCIAL SCIENCES	(Regional, etc.) (4)										
Full-time.	- Master's	13		0	0	0	1	٦	٦ ,	m	16
	- Doctoral	0		0	0	7	0	0	0	1	7
	- Total	13		0	0	1	7	1	1	+	1.7
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PHYSICAL SCIENCES											
	(3)										
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	- Doctoral	0		0	0	0	0	0	0	2	
	- Total	0		0.	0	0	1	0	0		
MATHEMATICAL SCIENCES	TENCES (6)	riand in right war management accountries		Michigan D. (If the Calculation of the Calculation of the modes (I		regularity and the state of the					
Full-time:	- Master's			0	0	٦	2	0	H	#	J.
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	- Doctoral	0		0	0	0	0	0	0	0	0
	- Total	T. Commence	Construction (Construction of Construction C	0	0	0	0	0	0	0	To the second se
ENGINEERING	(7)	Maryland Developing Statement of the commencer	ult-additionused diff. Day, sub-throughound by even-cable para. Diversification on 40 thinking, s.	e de la companya de l	Office benedities as we approximately to the design of the second	And All Conference and Management of the Conference and Conference		de 1998) mage san demonstrated demonstrates augustas en participares de 1998 (de 1998). Antanta	majorangen merjeya nepark incommensionen autojak Distribut Glassen genomen en jung der		L
Full-time:		CO 1		0	٦,	ල (37	ළා ((ກ ເ ສ	ກ a ດ
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	- Total	0		0	0	0	0	0	0	0	3
	4 5 3 3 3 3 4	tt	The second control of	0	0	0	1	0		1	



		Cenedian	Landed Irmigrant			For	Poreign		a satisfic management of the satisfic and sa	Subtotal	TOTALPage
		1970-71	1970.971	United States 1970-71	Kangdon 1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71
LIFE SCIENCES	(8)										
Full-cime:	- Master's	L 6		0 H	00	H O	0 9	00	П О	7 2	တတ
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Part-time:	- Master's	1			1	1	1	1	ŧ	1	ı
	- Doctoral - Total	1-1			1 1	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1 1	1 1	1 1		151
REALTH SCIENCES	(6) \$										
Full-time:	- Master's	18		m C		00	0 0	00	н с	ဖင	24
	- Total	2 9 Commonwealthanterior Commo		9	0	2					25
Part-time:	- Master's	\$		1	1	ı	1	ı	6		ı
	- Doctoral	1 1		1 1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
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Pull-time:	- Master's	114		н б	н о	⊅ O	യ ന	ကဝ	н О	80 <i>2</i> † rd rd	132
	- Total	153	A CONTRACTOR CONTRACTO	10			CONTRACTOR OF STREET, AND STREET, SAN OF STREET, SA		Statement Commence of the Comm		And the second control of the second control
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	- Doctoral - Total	119			O COMMONDATION OF CONTRACT OF	Commence of the commence of th	tectation province and the composition of the compo		Control of the contro	9	125
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		emac and who a particular	in-profitority-stilling-resilinday-valued-residades	United	United	Europe	Asta	Africa	Other	Foreign	
		1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71	1970-71
OTHER	(11)										
Full-time:	- Master's - Doctoral - Total	100	hands committee an annual state of the contraction of the state of the	0	0	101	000	000	000	101	10 11
## ## ## ## ## ## ## ##	- Master's - Doctoral - Total	0 0		0	0	0	0	0	0	8	8 0 8
# # # # # # # # # # # # # # # # # # #	(2) (3) mcludes:	English, Français, History, Philosophy Economics, Politica	> 4	Linguistics, Slavic Studies. , Classical Studies, Religious Studies. 1 Science, Sociology, Psychology, Criminology	udies. eligious S Psychology	tudies.	logy.				

Do not include "qualifying year" students (as this term is defined in the Report on the Counting of Graduate Students).

Geography.
Chemistry, Physics, Geology.
Mathematics.
Chemical, Civil, Electrical, Mechanical Engineering.
Biology, Biochemistry, Physiology, Anatomy, Histology and Embryology, Microbiology.
Education, Physical Education, Kinanthropology.
Civil Law, Library Science.

39293

(11)

Envolvent basis: Student numbers enrolled "as at" December 1st of each year.

An updated report incorporating December 1st actuals is required by no later than January 1st, 1971. Enrolment reported for 1970-71 to be latest estimates available of 1970-71 actuals.

Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Programmes at Ontazio Universities in 1969-70 ---- "(C.P.U.O. Research Division, May 11, 1970). 4.

"New registered" graduate studants are those enrolled in their program for the first time for the Pall Terms



- (b) Detailed presentation of graduate enrolment data:
 - iii. Degrees awarded, by Level, (masters' and doctorate) in each academic year from 1964-65 to 1969-70 (actual) and 1970-71 to 1975-76 (estimated and projected as per Form C.
- -This should be supplemented with a comment by the University as to whether the pattern of masters' degrees (thesis vs non-thesis) has changed over the years.

Please refer to Form C (pages 1.19 to 1.20) for statistics on graduate degrees awarded from 1964 to 1970 as well as projections to 1975-76.

A summary of degrees at the masters'level awarded at the University's last three Convocations is shown on the next page. The tables indicate with few exceptions, that a thesis is required for the masters'degree in the physical and life sciences. The relatively large increase in non-thesis degrees awarded can be attributed almost entirely to the Education program.



UNIVERSITY OF OTTAWA MASTERS' DEGREES AWARDED

	OCTO	BER 1969	MAY	1970	OCTOR	BER 1970
DISCIPLINE	THESIS	NON-THESIS	THESIS	NON-THESIS	THESIS	NON-THESIS
ANCIENT STUDIES	2	2	1	1	_	_
CIVIL LAW	_	5	-	3	-	7
CRIMINOLOGY	-	_	-	8	_	18
ECONOMICS	1	_	6	-	6	-
EDUCATION	deple	56	_	112	-	106
ENGLISH	2	-	1	_	-	~
GEOGRAPHY	-	-	_	-	_	
HISTORY	5	_	5	_	4	3_
HOSPITAL ADMINISTRATIO	ON 7	-	-		3	min's
LIBRARY SCHOOL	-	-	-	1	2	2
"LETTRES FRANCAISES"		_	5	_	5	4-
LINGUISTICS AND						
MODERN LANGUAGES	-	1	_	-	-	2
PHILOSOPHY	4	_	8	-	2	-
PHYSICAL EDUCATION	-		-	-	-	5
POLITICAL SCIENCE	_	****	4	man .	4	-
PSYCHOLOGY	_		1	13	3	3
RELIGIOUS SCIENCE	6	29	5	21	2	21
SLAVIC STUDIES	2	-	1	-	-	-
SOCIOLOGY		-	1	-	-	_
ANATOMY	_	_	-	_	1	_
BIOCHEMISTRY	1	_	1	-	2	-
BIOLOGY	1	_	1	-	-	en
CHEMICAL ENGINEERING	5	-	1	-	2	-
CHEMISTRY	2	_	1	-	1	-
CIVIL ENGINEERING	-	-	8	1	1	-
ELECTRICAL ENGG.	6	_	1	-	4	-
GEOLOGY	-	-	-	-	-	-
HISTOLOGY AND						
EMBRYOLOGY	-	-	-	_	_	_
KINANTHROPOLOGY	-	-	1	-	3	460
MATHEMATICS	2	-	3	_	2	-
MECHANICAL ENGINEERIN	G -	-	1	_	5	3
MICROBIOLOGY AND						
IMMUNOLOGY	2		-	_	_	_
PATHOLOGY	-	-	1 1	_	2	
PHARMACOLOGY	-	-	1		2	
PHYSIOLOGY	1	-	1 2		3	
PHYSICS	2	-	2	_	3	
SUB-TOTAL	51	93	61	160	58	168
TOTAL	1	44	2	21	22	6



			GRAIMAT	CRADUATE DECREES ANARDED/TO BE DISCIPLINE AREA	ATE ENROLMENT DATA LES ANAKDED/TO BE DISCIPLINE AREA		AWARDED BY				Form CUA-70-C	20-C
	1964-65 Actual	1965-66 Actual	1966-67 Actual	1967-68 Actual	1968-69 Actuel	1969.70 Actual	1970-71 Estimated	1971-72 Escimeted	1972-73 Estimated	1973-74 Estimated	1974-75 Estimated	1975-76 Estimated
Master's Doctoral	8 # # # T	201	191	171 34	219	372	267	306	361	403 76	463 81	510 80
EREALDOUN BY DISCIPLINE AREA HOMENTIES (Leaguage & Literature) (1) Master's	20	. 41	4 11	ca co	9 #	12	128	☆ 8	20	11	31	36
Humanities (Bistory, etc.) (2) Haster's Doctoral		17	11	ر د د	t †	မှာ က တ	ν Ο 0	0 0 0	6 2 2	۵. م ت	8 9	71.
SOCIAL SCIENCES (General) Master's Doctoral	32	98	#1 11	97 97	17 5	35	20.	1	N N N	0 #	ო თ თ	დ დ ო
Master's	(inc	included Wit	h Lang up to	uage 67-68)	m O	0 -1	84	∞ N	12	16	5 CZ .	8 8
5	12	120	13	യഹ	12	13	ស ម	m 14	10	10	111	E E E
Mester's Doctoral	(inc	(included wit	with Physical up to 67-68)	ical 68)	61.61	n 0	# 44	n te	# N	ဟက	ഗന	<i>ភេ</i> (១



	1964-65 Actus1	1965-66 Actual	1966-67	1967-69 Access	1963-69 Actual	1969-70 Actuel	1970-71 Estimated	1971-72 Eceteated	1972-73 Ectimated	1973-74 Estimated	1974-75	1975-76
				enderson de de construction de de construction	BRANCO ALCOHOLO DE CONTRA DE C	DEPOSITION CONTRACT AND		COOL Ser sanctual description of the Cool Section of the Cool Sect	Acertalistic concentration of the concentration of	Transcription and the property constraints of the c		Martine and the control of the contr
Mas tor 's	6 N	14	13	ភេះ	21	73 73	23 22	9	က မ	38	0 80	17 ED
LIVE SCHOOLS												
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BATT SCIENCES												
Master's Doctoral	00	m O	10	00	90	o 0	12	777	15	15.	20	25
EECCATION (5)	^											
Master's Doctoral	19	77 20	9 5	ς Θ Θ	96	169	120	125	140	140	165	180
BCS Tiles S												
Master's	00	00	00	00	00	00	00	00	20	25	000	33
(Law, Library science)												
Master's	el el	00	0 T .	19	io el	00	24	# M	7¢	52 H 22	30	32
	i			ı								

Pega 2

Disciplina erunn era as defined in "Swevey of Citisauship of Graduata Studento Entelled in Master's and brotheral Begrea Fregismusa as Catario Universities in 1969.70 ---" (C.P.S.O. Research Edvinton, May 11, 1976). Motes: (1)

1. includes all humanities except Philosophy up to 67-68.
2. only Philosophy up to 67-68.
3. includes social work in 1964-65 and 65-66, but not Psychology.
4. includes mathematics up to 67-68.
5. includes Psychology in 64-65 and 65-66. N.B.

Firence Eccels 6/10/70



- (b) Detailed presentation of graduate enrolment data: iv. Projections of enrolment year by year for the next five years as per Form D.
- -This table should be supplemented with an explanation by the University as to how such projections can be reconciled with those for the entire Province.

Please refer to Form D (pages 1.23 to 1.26) for projected graduate student enrolments for the next five years. Comments on these projections will be found under item 3 (a) of the agenda. For the information of the Committee the next page shows a summary of immediate post graduation employment of Ph.D. candidates subsequent to Convocations held in October, 1969 and May, 1970.



UNIVERSITY OF OTTAWA

IMMEDIATE POST GRADUATION EMPLOYMENT OF PH.D's 1969-70 CONVOCATIONS OF AUTUMN 1969 THROUGH SPRING 1970

OCCUPATION		JMI DNT B	CAI		0	RI	SI	Γ (ΟF			DA OT		R (RIES E
UNIVERSITY TEACHING	8	2	_	_	_		2	3	_	1	-		1	1	_	1	
INDUSTRY	-	-	3	-	-		-	-	-	-	-	Valley Communication or processory	-	-	2	-	_
RESEARCH FELLOWSHIP	_	_	4	-	3		-	-	4	1	_		-		2	3	-
PRIVATE RESEARCH INSTITUTE	-	_	-	1	-		-	-	-	2	_		-	-	_	-	-
GOVERNMENT	1	1	2	1	1		_		-	-	-	Treasure Control of the Control of t	1	1	-	1	_
UNEMPLOYED	1	-	-	_	_			-	-	1	_	And the second s	-	-	_	-	_
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UNKNOWN	-	_	-	-	-		_	_	-	_	_	and a contract	-	_	1	-	_
TOTAL	10	4	9	2	4		2	3	4	5	-	New York Control of the Control of t	2	2	5	5	-
			29						L 4						14.		

- A. Humanities
- B. Social Sciences
- C. Physical Sciences
- D. Life Sciences
- E. Engineering



	1970.71	1971-72	1972.73	1973-74	1974-75	1975-76
AGGRECATE FIGURES						
Full-time: - Master's	7900	010	1100	1197	1291	. 1377
- Total	1183	101	1528	1666	1800	1917
Part-time: - Master's	1135	1107	O.	1339	1551	1625
	245	249	238	256 1595	273	289
BREAKDOWN BY DISCIPLINE AREA						and an index of the contraction
HUMANITIES (Language & Literature)						
Full-time: - Master a	120	127	145	159	170	182
	99	6.9	7.9	8 2	9.2	56
- Total	186	196	224	2 h h	262	281
Part Master .	135	157	173	188	200	212
	5 #	5.7	61	99	7.1	7.5
- Total	1 8 0 magnification of the control o	214	234	254	271	287
WOMANITIES (History, etc.)						
Full-time: - Master a	어	123	134	139		151
	o s.	63	99	7.1	76	80
- Total	177	186	200	210	220	234
Part-time: - Master's	96	96	106	110	0	121
- Doctoral		က က	59	63	67	7.1
· Total	137		A Company of the comp		172	192
SOCIAL SCIENCES (Seneral)						
Full-time: - Master's	173	182	203	219	237	243
•	42	The	4.5	53	0	100
- Tetal	215	226	248	2.72	298	OTS

Form CUA-70-D

PROJECTED GRADUATE ENROLMENT (FULL-TIME AND PART-TIME) BY DISCIPLINE AREA



Part-time: - Master's - Doctoral - Total SOCIAL SCIENCES (Regional, etc.) Pull-time: - Master's - Doctoral - Total	1970-71 97 30 127 31 3 1 4	1971-72 92 15 107 107 44 44 44	1972-73 101 17 17 118 38 3 4	1973-74 110 23 133	1974.75	
Channe	97 30 28 3 3 3 1 4	3 10	101 17 118 38 3 3 4	H 0/0/	N	C.
	97 30 28 28 33 31	3 3 3	101 17 118 38 3 4	H 010	N	C.
Pull-time: - Master's - Doctoral - Total	28 28 33 31 4	3 3 3	38 38 44	101	C.	
Full-time: - Master's - Doctoral - Total	28 33 31 31 31 31 31 31 31 31 31 31 31 31	6	38 11 11 12		156	166
4 1 1	28 33 31 34 44 44	8	38 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
- Doctoral - Total	31 31 4	3	19 14 4	titi	50	5.5
	t 1 3		Ħ	8 7	5.5	61
Part-time: - Master's	- t		-	LC.	Œ	¥
			H	> 0	2	ာက
- Total			5		And the first property of the first property	6
PHYSICAL SCIENCES						
Full-time: - Master's	23	28	28	30	32	34
- Doctoral		57	61	49	99	68
- Total	7.9	8 5	8 0	46	86	102
Pert-time: - Mester's	10	σ	ω.	o	တ	10
- Doctoral	#	ഹ		2	9	9
- Total	14		13			16
MATHEMATICAL SCIENCES						
Pull-time: - Mester's	ry.	ထ	S.	9	9	9
- Doctoral - Total	10	12	11.	1.2	7 Commence of the control of the con	13
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EMCIPZERING (continued)



1975-76

1974-7
1973-74
1972-73
1971-72
1970-71

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Do not include "quelifying year" students (as this term is defined in the Report on the Counting of Graduste Students). e p~d No See

- Master's - Doctoral - Total

Part-time:

- Mester's - Doctoral - Tess

Full-time:

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FEX E-E SEED

TUSTALES (CORRIERES)

Enrolment hasis: Student numbers enrolled: "as at" December 1st of each year. 00 Enrolment reported for 1970-71 to be latest estimates available of 1970-71 actuals. er)

Distille stato are se defined in "Survey of Cirkennship of Condusts Studente Barciled in Monter's conficient of Posteria Briston in 1970). 6.



- (b) Detailed presentation of graduate enrolment data:
 - v. Sources of support for graduate students enrolled in 1969-70 as per Form E.

Please refer to Form E (pages 1.28 to 1.33) for details of sources of support for graduate students enrolled in 1969-70.

Recommendations regarding scholarships and financial support for graduate students will be found in the report of the Ontario Council on Graduate Studies which was approved by the Committee of Fresidents of Universities in Ontario at the meeting held on October 16, 1970.



SURVEY OF ANNUAL FINANCIAL RESOURCES FOR THE SUPPORT OF FULL-TIME GRADUATE STUDENTS, 1969-70 ACTUAL

Form CUA-70-E Page 1 (a)

Instructions: Indicate the number of students receiving any support. (double-counting is anticipated).

Not Supported under Any of Categories 1-7	(8)	6.5	476 476	The second secon	u u	7 1	5.5		357	9.2 9.2		139	= 00 cm	E C T
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Notes: 1. Do not include "qualifying year" students (as this term is dafined in the Report on the Counting of Graduate Students).

Eurolment besis: Student numbers enrolled: "as at" December 1st of each year.

2.

Disciplina areas are so defined in "Survey of Citisenahip of Graduase Students Enrolled in Master's and Doctoral Degree Programmes at Catario Universities in 1969-70 ---- (C.P.J.O. Research Division, May 11, 1970).

Support lavels should be reported on an annual basis, i.e. in relation to an entire academic year of the programme for which a student is registered. 3



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ACCEDEATE PICURES

Pull-time:

Full-time:

DISCIPLINZ AREA

Form CUA-70-E Page 2 (s)

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Pull-time:



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Do not include "qualifying year" students (as this term is defined in the Report on the Counting of Graduate Students). , e Notes:

Enrolment basis: Student numbers enrolled: "as at" December 1st of each year. 2.

Discipline areas are as defined in "Survey of Citizenship of Graduate Students Enrolled in Master's and Doctoral Degree Progresses at Onterio Universities in 1959-70 ----" (G.P.U.O. Research Division, May 11, 1970). 3.

Support levels should be reported on an annual basis, i.e. in relation to an entire academic year of the programme for which a student is registered.

Total studente reported should be identical with those reported on Form CUA-70-A.



- (c) General and Honours programs in Arts and Science.
 - i. Outline the University's attitude regarding continuing differentiation between general and honours programs.

The Faculties concerned (Arts, Management Sciences, Science and Engineering and Social Sciences) have all indicated a strong desire to continue to differentiate between "general" and honours programs. Regarding the former, the stress is now towards a degree with major (three years) at this University. The concensus is that only the best students should be eligible to undertake an honours (fourth) year qualified by the provision that students not be streamed out in the early years of their program. The latter consideration has no doubt led to the emphasis on the major program which enables the student to obtain his degree after three years or to opt for an additional year if his academic achievement warrants it. More recently, the Faculty of Science and Engineering has introduced the principle of promotion by subject for its undergraduate programs and similar proposals are currently being considered in the Faculty of Arts. The School of Physical Education and the Faculty of Social Sciences have already adopted this system.

A proposal for a joint honours program in the Faculty of Arts is currently under discussion. A brief summary of the draft proposal follows:

- 1. All existing joint honours programs in the Faculty of Arts would be replaced by programs of the type outlined below, for all students entering such programs after July 1, 1971.
- 2. New joint honours programs would comprise two subjects, a major subject to be studied to normal honours level (minimum 10 courses) and a minor subject to be studied to the level of the concentration (minimum 6 courses).



- 3. Students would be permitted to elect any combination of major and minor subjects listed, subject in each case to the approval of the two departments concerned. Examples:
 - a) Honours in English (minimum 10 courses) and Linguistics (minimum 6 courses).
 - b) Honours in Linguistics (minimum 10 courses) and English (minimum 6 courses).
 - c) Honours in <u>lettres françaises</u> (minimum 10 courses) and Latin (minimum 6 courses).
 - d) Honours in Latin (minimum 10 courses) and Spanish (minimum 6 courses).
 - e) Honours in Spanish (minimum 10 courses) and lettres françaises (minimum 6 courses).



- (c) General and Honours programs in Arts and Science.
 - ii. University comment on the effects of the adoption of a single weight for Arts and Science students for operating grant purposes.

Simulation studies prepared by the Research Division of C.P.U.O. at the time this matter was under review by the Subcommittee on Operating Grants showed the effect on this University's operating income for 1970-71 to be a decrease ranging between 0.2% to 0.9% on eleven different simulations that were considered. The studies were made with a view to obtaining a "best fit" situation which would minimize losses or gains to individual universities and at the same time provide operating grants to the University of Toronto, which had entered into a "new program in Arts and Science, roughly equivalent to the grants that would have been forthcoming under the present formula arrangement.

Notwithstanding the results of these studies we are of the opinion that a decision by certain universities not to differentiate between honours and general programs within a single Arts and Science category should not in itself, be sufficient reason for changing existing formula arrangements for all universities.

Correctly or incorrectly, the original formula categories acknowledged a difference between "upper Years Honours Arts" and "Upper Years Honours Science". This judgment was based upon the best information available at that time. To our knowledge there is no evidence based upon a carefully conducted analysis, that would invalidate this judgment. It is our considered opinion that no change should be made to the existing formula weights without first obtaining relevant information that indicates a necessity for it.



It would be better, in our view, to introduce a new and separate formula weight into the system that could be applied to universities that no longer differentiate between these programs. For those that do, and intend to continue to, differentiate between the programs the present formula arrangements should continue until such time as they are proven wrong.



- (d) Health Science Programs (where applicable)
 - i. Enrolment (undergraduate and graduate) in each health science program, year by year, for 1969-70 (actual), 1970-71 (estimated) and 1971-72 to 1975-76 (forecast) as per Form F.

Please refer to Forms F for estimated actual and projected student enrolments in Hospital Administration (page 1.39), Medicine (pages 1.40 and 1.41) and Nursing (page 1.42).



HEALTH SCIENCES PROGRAMS
LONG-TERM ENROLMENT DAYA
10 1975-76

Form CUA-70-F

Realth Sciences Program Reported Hospital Administration

Lastructions:

1. Programs of study in the Health Sciences, are listed below:

	Undergraduate	graduata
Dentistry	W W	73
Hygiene and Public Realth	10	슢
Madicina	₩	rich de
Physic and Occupational Therapy	w w	ŵ
Dental Hygieno	☆	
Dip. Public Health Bureing	©	
Medical Interns	₩	
Modical Residents	•	
Kursing	食	(3 ^a
Pharmacy	⑫	th the
Rospital Administration		MES.
Optomotry	the .	

2. Please complete this report in a manner consistent with the curviment categorisation ochome and definitions reflected on the regular D.C.A. Emplement Reports (Forms VA3). Note particularly, however, the precise requirement under 190m (1) thich is for regularization in the let University year subsequent to Grade 13 into endorgraduate degree programs only.

1970-71 (Estimat	a)		1971-72	1972-73	1973-74	1974-75	1975-76
Can cross c	(1)	Full-Time "Freshman Intake" (i.e. 1st Year Undergraduate Degree)					
deleningagements	(11)	Total Pull-Time Undergraduate (including diploma and other non-degree and make-up or qualifying year)	stantine representation (A)				
48	(111)	Total Graduate (Fall-Torm)	50	60	65	70	75
48	(14)	Total Full-Time Earolment (11 plus 111)	50	60	85	70	75
	(4)	P.T.E. of Part-Time Enrolment using Formula Conversion Factors (including "Summer School" Graduate Students)				-	
	(v1)	F.T.E. Enrolment (iv plus v)	-				-
116	(vii)	Total Basic Income Units Under Formula (i.e. Total Weighted Eurolment)	125	150	160 .	175	105

Emplementary Community continuing variations in above carcleses date as compared with similar forecasts outsetted Fall, 1989 (Please deal with both the quantitative security of Empo variations and the reasons for them):



BRALTS SCIENCES PROGRAMS LOUG-SLOW ELIDINATES TOTA TO 1973-76

Porm CUA-70-P

Health Seitmoss Program Reported

MEDICINE

Engagement and a

1. Programs of study in the Hamilth Sciences, are listed below:

	Undergradusto	Gradusta
Deatistry .	e	(3)
Mygiene end Public Health	str.	\$
Medicine	ta ta	☆
Physic and Occupational Therapy	₩	100
Dantal Mygieno	d	
Dip. Public Health Bursing	the state of the s	
Medical Interns	thr	
Medical Residents	Va	
Muraing	th the	Ø.
Pharmacy	₩	2
Houpital Administration		His
Optometry	20	

2. Please complete this report in a manner consistent with the earolment categorization others and definitions reflected on the regular D.V.A. Enrolment Reports (Forms Val). Note particularly, however, the precise requirement under item (1) which is for registration in the let University year subsequent to Grade 13 into undergraduate degree programs only.

1970-71 (Eptimet	~ }		1971-72	1972-73	1973-74	1974-75	1975-76
80	(1)	Pull-Time "Freehmon Intake" (i.e. 1st Year Undergraduate Degree)	80	80	80	80	80
	(11)	Total Full-Time Undergraduate (including diplome and other non-degree and make-up or					
290		qualifying year)	300	300	300	300	300
46	(111)	Total Graduate (Fall-Term)	42	47	52	57	62
336	(44)	Total Full-Time Enrolment (ii plus iii)	342	347	352	357	362
0	(v)	F.T.E. of Part-Time Enrolment using Formula Conversion Factors (including "Summer School" Graduate Students)	0	0	0	0	0
336	(v1)	F.T.E. Enrolment (iv plus v)	342	347	352	357	362
1682	(vii)	Total Basic Income Units Under Formula (i.e. Total Weighted Enrolment)	1704	1728	1752-	1774	1798

Explanatory Communications variations in above exposured data an compared with similar forecasts submitted Fall, 1969 (Please duel with both the quantitative parameters of those variations and the ressons for them):



DONG-TENA EMBOLMENT DATA
TO 1975-76

Form CUA-70-F

Realth Sciences Program Reported Medical Interns and Residents

Instructions:

1. Programs of study in the Health Sciences, are listed below:

	Undergraduate	Graduate
Dentistry	the	W. C. S. C.
Hygiene and Public Health	ŵ	17
Medicine	*	232
Physic and Occupational Therapy	nde .	riv
Dantal Hygiene	*	
Dip. Public Health Mursing	*	
Medical Interns	rie e	
Medical Residents	the	
Nursing	चंद	th
Pharmacy	常	*
Hospital Administration		rde
Optometry	150 miles	

2. Please complete this report in a manner consistent with the enrolment categorisation scheme and definitions reflected on the regular D.U.A. Enrolment Reports (Porms UA3). Note particularly, however, the precise requirement under item (1) which is for registration in the lot University year subsequent to Grade 13 into undergraduate degree programs only.

1970-71 (Estimat			1971-72	1972-73	1973-74	1974-75	1975-76
(Es cimac	(1).	Full-Time "Freshman Intake" (i.e. 1st Year Undergraduate Degree)					
240	(ii)	Total Full-Time Undergraduate (including diploma and other non-degree and make-up or qualifying year)	265	285	310	.335	365
	(111)	Total Graduate (Fall-Torm)	миниров «МСированского»	etambahan camandagan yang manggala			- Althorate in the contract of
queralization derectorum	(iv)	Total Full-Time Enrolment (ii plus iii)		GLACESCON STRANGED COSTO	substituti oli lysiaminjutoi puro-		
	(v)	F.T.E. of Part-Time Enrolment using Formula Conversion Factors (including "Summer School" Graduate Students)	Confliction of the Confliction o				
	(vi)	F.T.E. Enrolment (iv plus v)	-	forfunacionario marriamente			
600	(vii)	Total Basic Income Units Under Formula (i.e. Total Weighted Enrolment)	662.5	712.5	775.0	837.5	912.5

Explanatory Comments outlining variations in above enrolment data as compared with similar forecasts submitted Fall, 1969 (Please deal with both the quantitative parameters of these variations and the reasons for them):



HEALTH SCIENCES PROGRAMS TO 1975-76

Porm CUA-70-P

Health Sciences Program Reported School of Mursing

Instructions:

1. Programs of study in the Health Sciences, are listed below:

	Undergraduete	Graduate
Dentistry	台	the state of the s
Hygiene and Public Health	₩	\$
Madicine	\$2	dr
Physic and Occupational Therapy	龙	*
Dental Hygiene	थी	
Dip. Public Health Mursing	♠	
Medical Interns	थीर	
Medical Residents	\$	
Barsing	₩	额
Pharmacy	©	100
Hospital Administration		10
Optomatry	*	

2. Please complete this report in a manner consistent with the enrolment categorisation scheme and definitions reflected on the regular D.U.A. Enrolment Reports (Pores UA). Note particularly, however, the precise requirement under item (1) which is for registration in the let University year subsequent to Grade 13 into undergraduate degree programs only.

1970-71 (Estima			1971-72	1972-73	1973-74	1974-75	1975-76
52	· a (1)	Full-Time "Freshman Intake" (i.e. let Year Undergraduate Degree)	76	86	96	106	116
438	**(11)	Total Full-Time Undergraduate (including diploma and other non-degree and make-up or qualifying year)	287	330	286	322	361
	(111)	Total Graduate (Fall-Term)		GAMINERS/EXECUTION/CLUM	Mortani-pampassandalitus As-		10
438	(iv)	Total Pull-Time Enrolment (ii plus iii)	287	330	286	322	371
	(v)	F.T.E. of Part-Time Enrolment using Formula Conversion Factors (including "Summer School" Graduate Students)					
	(1v)	F.T.E. Enrolment (iv plus v)		-	**************************************	-	-
719	(v11)	Total Basic Income Units Under Formula (i.e. Total Weighted Enrolment)	505	600	572.	644	752

Explanatory Comments outlining variations in above enrolment data as compared with similar forecasts substituted Vall, 1999 (Please deal with books the Committee to be commented of these variations and the Teasons for Chem):

^{*} These projections include "Freshman intake" for the Basic Degree Program and the Post Basic Degree Program for registered nurses.

The projections for 1971-72 and 72-73 include students enrolled in the Post Basic Degree Programs in Mursing Education and Public Health Mursing which will be phased out in 1973.



- (d) Health Science Programs (where applicable)
 - ii. University comment on:
 - -the relationship of forecast enrolment to Provincial need for health sciences personnel.
 - -the possibility of expanding enrolment in each health sciences program with staff and facilities now on hand or included in current forecast.

HOSPITAL ADMINISTRATION

With the current program, enrolment is limited to 25 students per year, based on the number of available residency positions. However, the program is rapidly shifting away from an emphasis on institutional management of acute general hospitals, in order to encompass the management of other health service agencies and organizations, including mental, chronic and convalescent hospitals, medical clinics and para-medical agencies, governmental agencies concerned with health, voluntary organizations of health care deliverers, and so on.

It is foreseeable that we will take on a new type of program which will admit students with one year of post-graduate administrative education and prepare them for careers in institutional administration, and particularly health planning, with the object in mind of their completing a Master's degree. In the distant future this program could conceivably expand into the administration of Welfare and Social Services.

MEDICINE

The projected enrolment for medical students will increase when additional facilities become available. However, since the completion date for such facilities is not known the upper limit



of 300 in the M.D. program has been left unchanged until 1975-76 for the time being. The current functional program for the Health Sciences Centre is based on the following projections:

UNDERGRADUATES: 350

GRADUATES:

(including post-doctoral

fellows)

basic sciences 177

clinical sciences 16

physiotherapy 40 - 50

NURSING

The Report of the Ontario Council of Health on Education of the Health Disciplines states that:

"Manpower Committee predictions indicate that approximately 20 per cent of nursing personnel will require advanced preparation beyond the basic diploma. These predictions also forecast for the 1975-80 period, that provincial requirements for baccalaureate and higher degree graduates will be for not only absolutely more but also relatively more."

In 1969, 7 per cent of the students admitted to schools of nursing in Ontario were enrolled in university schools of nursing; of the total number of graduates from schools of nursing in Ontario, only 3 per cent graduated from university schools of nursing.

a. University of Ottawa Health Sciences Complex, Llewelyn-Davies, Weeks, Forestier-Walker and Bor, November, 1967.

b. Report of the Ontario Council of Health on Education of the Health Disciplines, Ontario Department of Health, Communications Branch, Toronto: June 1969, p. 45.

of Nurses of Ontario, September, 1970.



In 1968, Ontario had 59,116 registered practicing nurses involved in the many fields of nursing activity. On this total number, 2933 were nurses with a baccalaureate or higher degree. Of the 501 nurses holding a master's degree, 77% received their degree in the United States, 21% in Canada, and 2% in other countries.

The School of Nursing plans to implement its enrolment projections provided that a sufficient number of qualified teachers at the master's level in the clinical specialities of nursing can be found. It seems that we will need to recruit this calibre of teachers from the United States for some years yet since there is only one graduate program in Nursing in Ontario, namely at the University of Toronto which offers a Master's program with a major in clinical specialities.

a. Countdown 1969, (Ottawa: Canadian Nurses'Association, 1969), pp. 49-59.



- (d) Health Science Programs (where applicable)
 - iii. Total operating costs of each health sciences program, for 1969-70 (actual), 1970-71 (estimated) and 1971-72 to 1975-76 (forecast) and University comment as to sources of required funds to meet such costs as per Form G.

Please refer to Forms G (pages 1.50 to 1.53) for each of the following:

- Consolidation Health Sciences
- Medicine Undergraduate and Graduate, Medical Interns and Residents
- Nursing
- Hospital Administration

In preparing the requested information relative to the revenues and "costs" of the Health Sciences programs it has not been possible, from data presently available, to differentiate between the programs of study in medicine and medical interns and residents. Neither has it been possible to segregate the information between undergraduate and graduate programs. Data relative to the overlapping of teaching in each of the programs with its automatic effect on both revenues and cost is not available at this time. It is questionable whether such information, which would have to be based on extensive subjective judgment, would be valid in any event.

The arrangements existing at this University regarding the remuneration of medical staff are outlined in some detail for the information of the Committee:

1. Each clinical teacher is remunerated by the University in one of three ways.



1.47

- (a) Geographical full-time clinical teachers are paid a basic salary by the University, with fringe benefits payable by the University based on this salary, and are permitted to retain professional earnings up to an agreed ceiling as specified by contract.
- (b) Major part-time clinical teachers 50% of working week or better - are paid a basic salary by the University proportional to the salary of the same academic rank payable to Geographical full-time teaching clinicians. Fringe benefits are optional for this group and a contract is required.
- (c) Minor part-time clinical teachers less than
 50% of working week are,in most cases, paid
 a small honorarium by the University.
- 2. Ceilings for Geographical full-time clinical teachers are presently calculated as a percentage of basic salary. This percentage varies according to academic rank. The percentages also vary for the different clinical specialities, e.g. 150% for surgical specialities, 100% for others.
- 3. The funds for basic salaries arise from four sources, mainly,
 - (a) Funds provided through the operating budgets allocated by the University to the Faculty of Medicine.
 - (b) Funds received by the University from the Ontario Hospital Services Commission through the teaching hospital where the clinician is based. These funds represent 50% of the basic salaries in the case of both Geographical full-time and Major



part-time teachers.

- (c) Funds received by the University from teaching practice partnerships or as net earnings in excess of ceilings of individuals and under the full control of the University.
- (d) Funds received from foundations or research agencies.
- 4. Fees are collectable from patients or third parties by Geographical full-time and Major part-time clinical teachers and clinical teaching units for all services rendered, whether, in-patient ambulatory or emergency.

In certain departments of some hospitals the group of Geographical full-time and Major part-time clinical teachers operate a formal teaching practice partnership. In other situations, doctors practice independently, retaining fees up to the agreed ceiling and in some cases contributing to the operating expenses of the department. Fee earnings - net of expenses - in excess of ceilings are paid to a research trust fund of either the hospital or the University.

- 5. Ontario Hospital Services Commission funds are recovered by the University on a monthly basis from the hospital to which the clinician is primarily attached. The total amounts received from hospitals are credited to the specific departmental accounts within the Faculty of Medicine. No claim is made against hospitals to match any funds except those which are controlled by the University.
- 6. There are basically two types of contractual arrangements both of which are tripartite between the individual, the University and the specific hospital; one for



Geographical full-time which includes a ceiling, the second for Major part-time which does not.



FINANCING OF HEALTH SCIENCES PROGRAMS	Teaching service re students not enrolled in Wealth Sciences programs (net)	1969-70 1970-71 1971-72	\$1,550 \$1,650 \$1,730 1,000 1,062 944 2,970 3,117 2,996	рат провения под двам туда де протобилителення под объеванення потерня под потерня под потерня под под под под Также провения под двам туда де протобилителення под объеванення под	Rasic operating income (Operatine Grants Formula) 4,603,500 5,143,050 5,183,050 5,183,050 5,183,050 5,183,050 702,750	1,280,102 1,402,414 1,500,000	Trust and endowment funds Fees for physicians' services All other revenue (itemize by category)	6,378,122 7,203,914 7,445,830	Companies of the property of the second seco	2,305,846 1,468,509 778,533	5,044,913 5,539,126 6,001,232	Financed from funds other than university's operating income: Direct faculty operating expenditures - 481,318 646,450 742,750	Other applications of special funds (Itemize) 1,774,622 2,060,654 2,262,750 Total	6,819,535 7,599,990 8,263,982
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FORM CUA-70-G	1974-75 1975-76	\$1,730 \$1,730 692 727 2,710	4,517,030 4,688,300 972,750 1,332,750 1,725,000 1,825,000		7,304,780 7,946,050	2,292,377 2,652,000 1,575,597 1,775,597 652,750 67,500 1,010,702 1,156,931 5,531,426 6,262,028	1,032,750 1,397,750 30,000 35,000 1,725,000 1,825,000	2,787,750 3,257,750 8,319,176 9,519,778
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FINANCING OF HEALTH SCIENCES PROCRAMS Teaching service re students not enrolled in	of Health Scien	\$1,550 567 2,240	3,472,000 468,318 1,288,102	18,202	5,246,622	1,537,758 1,175,462 540,848 887,223 4,141,291	481,318 5,202 1,288,102	5,915,913
Vedicine Undergraduate and Graduate Vedicine Undergraduate and Graduate Teaching servi	Not assignable to a program Consolidation	Assumed basic income unit value Full-time equivalent students Basic income units	REVENUE 1. Basic operating income (Operating Grants Formula) 2. Support received from O.H.S.C. 3. Other Provincial operating grants 4. Assisted Assistance research funds		Total Revenue EXPENDITURE	A. Financed from university's operating income: i Direct faculty operating expenditures - (a) Academic salaries (b) Other objects of expenditure il Library and computing centre expenditures iii Ceneral university overhead Total	B. Financed from funds other than university's operating incomes: 1 Direct faculty operating expenditures - (a) Academic salaries (b) Other objects of expenditure if Assisted/sponsored research	iii Other applications of special funds (itemize) Total Total Expenditure



FINANCING OF HEALTH SCIENCES PROGRAMS	Teaching service re students not enrolled in Health Sciences programs (net)		3.70 1970-71 1971-72 1972-73 1973-74 1974-75 1975-76	550 \$1,650 \$1,730 \$1,730 \$1,730 \$1,730 \$1,730 385 438 287 285 372 371 61d 719 505 600 572 644 752		951,700 1,185,350 873,650 1,038,000 969,560 1,114,120 1,320,960	951,700 1,165,350 873,650 1,038,030 967,560 1,114,120 1,350,960		315,467 374,091 420,562 528,182 574,702 659,782 726,762 115,605 121,333 132,376 150,699 157,523 167,595 168,991 148,250 176,560 126,699 157,523 161,990 168,991 160,660 178,560 164,699 167,523 161,990 166,600 160,600 128,451 144,698 177,332 191,551 237,902 77,132 166,600 1,956,600 1,956,600 1,956,600 1,556,743		720.202 634.401 923.699 1,006,273 1,066,656 1,192,467 1,345,745 91,160 92,200 110,600 128,200 129,000 130,000 131,800
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1. Review of Current Programs

- (d) Health Science Programs (where applicable)
 - iv. Outline of capital costs of University projects in the Health Sciences developed during the past five years and/or contemplated for the next five years. Identify each project and indicate the scale and unit cost (per n.a.s.f.), actual or estimated, for that project.

During the past five year period, 1965-70, the capital projects in the Health Sciences have been limited to a small temporary accommodation renovation project at 130 King Edward Avenue to provide space for the Department of Paediatrics and to the first stages of a functional planning project of the proposed new Health Sciences Complex. The capital costs involved were as follows:

1965-70

Temporary Accommodation
- 130 King Edward Avenue

\$ 28,031.

Functional Planning
- new Health Sciences Complex \$265,113.
\$293,144.

In addition to these actual expenditures, an amount of \$10,240. was paid to the architects and planners to begin work which, at that time, was considered to go beyond the functional planning stage.

Concerning the proposed new Health Sciences Complex for the University, a planning report was presented to the Senior Co-ordinating Committee in December 1967. At that time it was proposed that a Health Sciences Complex would be constructed on campus and would comprise the following:



Faculty of Medicine
School of Hospital Administration
School of Nursing
School of Physiotherapy, and a
421-bed University Hospital

The presentation indicated a total project cost of approximately \$77.9 million for a total net assignable area of 954,828 sq. ft. - \$81.57 per NASF. Approval-in-principle was given to commence the forward planning for a complex totalling 455,000 NASF plus a 400-bed University hospital for a total project cost of \$67 million, excluding land acquisition which was estimated at \$3 million.

In view of the fact that the approval-in-principle necessitated a considerable cut-back from the original presentation, architects and consultants were appointed and contract documents prepared. These documents were submitted and forwarded for consideration by the Senior Co-ordinating Committee. Subsequent events, however, necessitated that planning work be halted.

The University and its affiliated hospitals were later informed by the Senior Co-ordinating Committee that the total cost of the proposed hospital and other health sciences projects in the region amounted to \$198.6 million. The Senior Co-ordinating Committee stressed that funds of this magnitude would not be available but that \$100 million (current dollars), to be discounted at 6% per annum, would be provided in the next decade to provide for teaching and research facilities, including the cost of land acquisition, for the Ottawa region.

Since that time the University and the Ottawa Regional Hospital Planning Council have studied the matter extensively. After considerable discussion and extensive negotiation the Board of Governors of the University approved a recommendation to move the Health Sciences Complex "off-campus" to a site at Alta Vista and Smyth Road and to include in this complex a 500-bed University Hospital.



Consultants were commissioned to delineate the land assembly at Alta Vista and to prepare a master development control plan and to make an initial study of the cost.

The consultants have reported that it would not be possible to provide a 500-bed hospital within the funds presently available. Following the advice of the consultants, consideration is being given to reducing the size of the hospital to 360 beds and the overall number of teaching beds for the region to 960. Further, it was agreed that the functions of the affiliated hospitals should be re-examined and that the Ontario Health Resources Development Plan funds be re-allocated in accordance with respective teaching roles and the formula at present being evolved by the Province.

Given these circumstances it is extremely difficult to provide a reasonable forecast of costs in this area. However, a preliminary estimate of the cost of the Complex, including a 360-bed University hospital, is \$63 million comprised of the following:

Health Sciences Complex, including functional planning	\$34	million
University Hospital	26	
Land acquisition	3	
	\$63	million

This figure compares to an estimated \$75 million on the basis of including a 500-bed University Hospital. The difference, presumably, being the cost of the hospital.

A very provisional estimate of the cash flow requirements on the basis of a total cost of \$63 million is provided, for discussion purposes, as follows:



(THOUSANDS OF DOLLARS)

I -	FUNCTIONAL PLANNING	LAND ACQUISITION	HEALTH SCIENCES COMPLEX	TOTAL
Prior Years'Advances	\$270			\$ 270
1970-71	198		\$ 10	208
1971-72	194	\$3,000	1,176	4,370
1972-73	44		2,162	2,206
1973-74			10,363	10,363
1974-75			10,365	10,365
1975-76			12,813	12,813
Subsequent			22,405	22,405
=	\$706	\$3,000	\$59,294	\$63,000



1. Review of Current Programs

- (d) Health Science Programs (where applicable)
 - v. Outline of uses of health sciences facilities for university programs other than health sciences programs.

The facilities of the present Faculty of Medicine building are not used for any other university program other than Health Sciences.

The adjacent library is used jointly by the Faculty of Medicine and the Faculty of Science and Engineering; for the Ontario Universities Physical Resources Survey the assignable area used by the latter Faculty was pro-rated accordingly and is included in our base inventory.

Recently, the University's Biochemistry programs have been grouped into one Department of Biochemistry which is jointly affiliated to the Faculty of Medicine and to the Faculty of Science and Engineering. Some facilities for this Department are located in the Faculty of Medicine building but most of the Department will be accommodated in the existing Electrical Engineering building which is included in our space inventory for purposes of the Interim Capital Formula.

As of September, 1970 the School of Nursing (with an enrolment of 438 students for 1970-71) was moved to the new Science Building in order to provide the School with more adequate space for an interim period until the Health Sciences Complex is constructed. The School occupies approximately two floors of office, library and other space and schedules its lectures in the classrooms in this building as well as in other buildings of the Faculty of Science and Engineering. No attempt has been made to delineate this space when calculating the University's capital entitlement although it is clear that



several thousand NASF are involved.

A significant amount of university space, already included in our inventory, is being used for programs in Health Sciences for which no provision is made in the current Interim Capital Formula. The University feels that either some adjustment be made to our base inventory or else that some weightings be established for students in Health Sciences programs.



2. Factors affecting levels of university support

- (a) Detailed presentation of types and sizes of classes:
 - i. Summary of data submitted for C.P.U.O. survey as per Form H.

Please refer to Form H (pages 2.2 and 2.3) for details of types and sizes of classes.

As in 1969, a central scheduling system was used for the allocation of classrooms by courses in Arts, Criminology, Management Sciences, Physical Education and Social Sciences. With this year's overrun (see item 3 (a)) in student enrolment some very serious problems were encountered. For teaching purposes it has been necessary again this year to use the University chapel and the elementary school (Garneau School) on campus. A number of rooms in church basements and parish halls were also rented. Apart from the fact that many of these rooms are marginally acceptable for use, in many cases the capacity of such rooms has been stretched beyond reasonable limits. They are not liked by students and professors and also involve a big wastage of teaching time, despite efforts on the part of the schedulers to program courses with minimum campus movements in mind. An examination of the room utilization study, which is shown on pages 2.4 to 2.8 indicates that several rooms are used for over fifty hours a week.

Construction of the Central Library, in which an entire floor will consist of classrooms, is underway with a planned completion date of August 15, 1971. If, for some reason this schedule is not met it will be most difficult to cope with the classroom situation for the 1971-72 academic year.

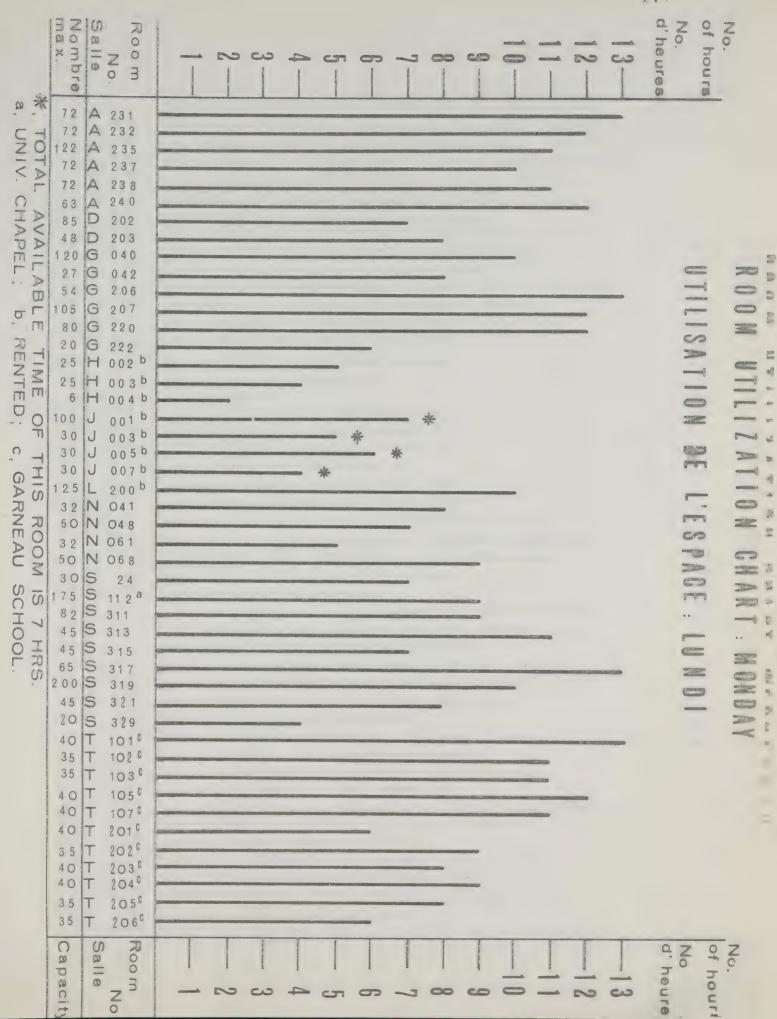


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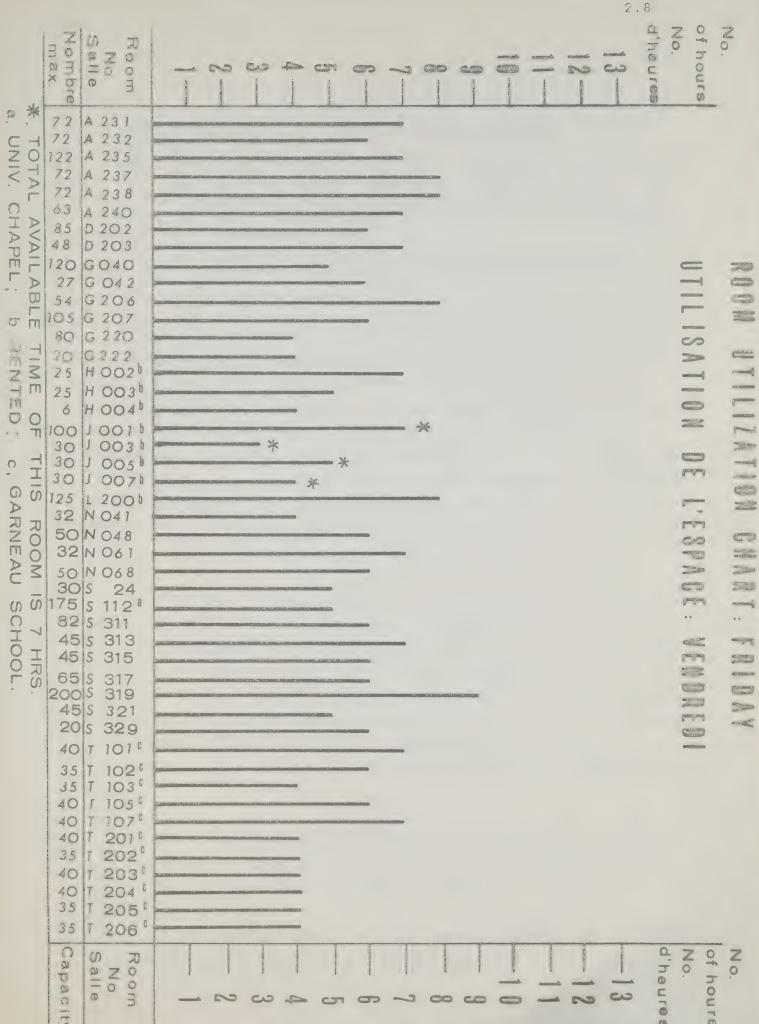














- (a) Detailed presentation of types and sizes of classes:
 - ii. Outline of new approaches to teaching and learning being considered by the University and the possible effects of such on class size and operating costs.
 - iii. Comments on possible effects of educational technology on class patterns at the University.

From data collected for the Ontario Universities Physical Resources Survey it was calculated that as of September 1969, close to 45% of the University's net assignable area was in buildings over 40 years old. Most of these buildings are old houses and this has been a limiting factor in terms of our classrooms. Since many of the latter are not of the appropriate size it has had a profound effect in the patterns of sectioning of classes which have been established over the years. The University, in planning for new facilities, has carefully reviewed existing practices and introduced changes where necessary.

On the basis of an intensive internal study on the uses of instructional technology which was prepared for the Senate, the latter established an Advisory Committee on Instructional Media in the early part of 1968. One of the recommendations of the study was that, because of cost and utilization factors, central facilities for instructional media should be planned. Following is a summary of some of the developments in the area of instructional technology which have occurred on our campus since 1968:

- functional plans for a Communications and Instructional Media Centre (CIMC) are currently being implemented as part of the Central Library Building.
- a detailed document in which were outlined the philosophy,
 responsibilities and organization of the CIMC was prepared



by the Senate Advisory Committee on Instructional Media and approved by the Senate on September 22, 1969.

- a central distribution network for equipment and for the rental and projection of films has been established; campus-wide policies have also been established defining procedures and budget responsibilities by users.
- provisions for the use of instructional media in new buildings are now being planned in an integrated manner by the CIMC; standards for instructional media equipment have also been developed.
- video-tape recordings for certain laboratory courses are currently being used.
- plans are being made for teaching engineering graphics to first year students by closed circuit television; a room in the new Science Building was especially designed for this purpose.
- an audio library, based on recordings of required courses in certain programs in Arts has been developed for the benefit of blind students.
- micro-teaching techniques have been developed in the Faculty of Education and the School of Physical Education is currently exploring the possibility of using this type of educational technology.

The establishment of the CIMC, therefore, reflects the University's interest in developing new approaches to teaching and learning. At this stage, however, it is very difficult to evaluate what effects some of these approaches may have on class size and operating costs. In the case of certain types of laboratory instruction, for example, the use of video-tape recordings reduces expenditures for qualified instructors. These



economies, however, must be weighted against capital and maintenance outlays for equipment as well as production and other costs.

Until recently, educational technology was not used to any large extent within the University. At this stage of development it appears that the decision to centralize facilities in this area is sound. Far more efficient utilization of equipment has been realized and now that the various departments are aware of the availability not only of equipment but of professional staff, many more professors are becoming interested in the applications of instructional media.

The CIMC currently operates from an old house and will not be at maximum efficiency until the end of 1971 when it moves into its new quarters in the Central Library Building.

In September of 1969, the Vice-Rector (Academic) invited the Association of Professors and the Students' Union to name representatives to a task force whose primary goal would be to study the question of teaching and to develop a program of student course evaluation at the University of Ottawa. The task force has recommended in its report that a standing committee on University Teaching be established with responsibilities for the implementation of a course evaluation program and for developing a comprehensive program for improving the quality of teaching at the University. The Faculty of Science and Engineering already has such a committee to examine new approaches to teaching and to see what improvements can be made in current methods used. One of the important functions of this group has been to bring together a large number of professors in the Faculty to discuss such matters. It is an indication of the growing awareness on the part of the teaching staff of the need not only to improve the quality but to explore better and more efficient methods of teaching.



professors to improve the quality and efficiency of teaching it is clear that a significant number of them are most reluctant to change their traditional methods of teaching.

At the level of the Faculties and Schools there are a number of developments which may be of interest to the Committee.

The Faculty of Social Sciences has recently undertaken a study with a veiw to introducing changes in the Faculty's current methods of teaching. The emphasis will be on the parameters used to measure academic achievement and on the application of instructional media for teaching purposes.

The Department of Linguistics and Modern Languages is currently exploring the possibility of computerizing the retrieval of tapes by students as well as attendance records in the language laboratories.

A number of new approaches to teaching have been explored during the past two years by the Department of Mathematics. One of these involved the application of a programmed method of instruction in a calculus introductory course. This method permitted students to proceed at their own pace, using a special programmed text, with minimal guidance and supervision. It was found that this method proved to be less effective than the regular lecture course and that it meant no decrease in the student:professor ratio. This method of teaching has therefore been abandoned. On the basis of experience elsewhere (Carleton, University of Illinois) the Department of Mathematics considers the use of televised lectures to be ineffective and uneconomical in terms of time and money. Currently, the Department is considering the introduction of a computer-oriented calculus course.



- (b) Resource Allocation University Operating Funds.
 - i. Budget allocations for major salary and nonsalary categories for the years 1969-70 (actual) 1970-71 (estimated) and 1971-72 (projected) as per Form I.

Please refer to Form I (pages 2.14 to 2.15). At this point in time the University budget for 1971-72 has not been developed to the stage where it can be included for comparison.



			2000-93 344-4422	1970-71 0555c1a1	1971-72 Projected
					(3)
All gr	:08's (expenditures of the University other than Account	Cinic Constitution of the	SI OLS	6109038089988000
LESS:	(a)	Assisted/Sponsored Research		BOCKS ADMINISTRATION AND ADMINISTRATION AND ADMINIS	
	(b)	Principal and interest payments on capital indebtedness	aut transform a most dep	CONTRACTOR	
	(c)	Student aid	Commercial Confe	sousonesses 200 Las	
	(4)	Ancillary enterprises (as per Form J)	wind in the	ominate different	
	(e)	Coots of programs in education, if any (Note 1)	the the the small has		gazdajunija celitranjama centralism centralism
		Total enclusions	torus resolución somo co		
	Roma	inder - representing operating expenditures eligible for formula and other operating grant support (analysed on page 2)		Section Control	
Source	8 of	Financial Support for Abóso:			
	(2)	Basic operating income (weighted enrol- ment * x unit value)	_20.099	25.07)	Native segments and the Approximate
	(b)	Other operating grants	2,500	4,300	
	(c)	Balance	672	1.760	
		Total (equal to Remainder above)	26,430	20,600	SIM STREET, STREET FR

Note 1: For 1969-70 and 1970-71 deduct amounts representing total allowable operating expenditures taken into account in arriving at grants for teacher education programs. For 1971-72 deduct amount representing 5% escalation in the bucget on a per student basis.

* For 1970-71, official budget figure of weighted enrolment.



Form CUA-7G-1

STATEMENT OF THE FINANCING OF OPERATIONS - Page 2

		69-70 tual	0:	970-71 Eficial Judget		971-72 jected
1.Enrolment of the university weighted in accordance with the Operating Grants Formula (1) (i) Projected (official) (ii) Used in official budget of the university (iii) Latest estimate (iv) Actual		697.1 (x	(x) 1	<u>5,4%6.9</u> 5,4%6.9 6.6%6.8 atod Astual	254	<u> </u>
	Total Amount	Per unit of weight- ed Enrol- ment	Total Amount	Per unit of weight- e6 Earol- mont (2)	Total Amount	Per unit of weight- ed Earol- ment
	(\$000 8)	(2000 8)		(2000'0)	
2.Total operating expenditures, as per Page 1(5) Less: (i)All academic salaries(3) (full-time, part-time graduate assistant- ships and other class-	26,490	1,755	28,820	1.880	Office State of Confessions	
room instructional salaries)	10,529	697	12.944	235		
(ii)Fringe Benefits	CONTRACTOR SECURITY	68	933	64		
related to above	1,020		900	0.4	-	-
Balance, All other operating expenditures	14,941	990	14,398	CAL	Charles a state of the Control of th	
Breakdown of all other Operating						
expenditures: 1. All furniture and equip-			mi - ma			
ment 2. Library:	1,595	106	617	53		-
-Library Acquisitions	610	40	503	34		
-Salaries and wages of library staff	905	60	1,121	72		
-Fringe benefits	69	5	70	5		
related to above 3. Plant maintenance(4)	000000000000000000000000000000000000000	CONTRACTOR	granditalestrates with	CENTRAL CONTRACTOR CONTRACTOR		
-Salerie: and wages -Pringe benefits	1,857	89	1.713	110	-	-
related to above	135	9	184	9		
-Other 4. Ramainder:	3,764	249	1,988	136		
-Salarie: and wages	4,371	299	5.037	523		quique and a second
-Fringe benefits related to above	139	9	145	9		
-Other objects of expenditure	2.016	134	9 6839	193		
TOTAL (as above)	14.941	950	3.973	961	***************************************	
101M2 (88 00014)	ANIVOL	770	2.0000		**************************************	-

- NOTES: (1) This, of course, may be greater than the eligible number of basic income units.
 - (2) Basis of calculation: weighted enrolment used in official budget of the university.
 - (3) To include all academic administrative appointments.
 - (4) To include all expenses (except furniture and equipment) included under definitions 18 and 22(a) of "Instructions, Definitions and Notes Relating to the Completion of the DES-CAUBO Report on Financial Statistics of Universities and College; for 1969".
 - College: for 1969".

 (5) By way of supplementary comment, please disclose the University's policies with respect to the use it may make of "reserves" or "appropriations". The effect of such policies, and their measurable dollar impact should also be disclosed, in sufficient detail to permit a full understanding of the University's procedures towards arriving at annual operating expenditures.
 - (6) The completion of this column is optional.
 - (7) That Buiget which has been adopted by the Board of Covernors.



- (b) Resource Allocation University Operating Funds.
 - ii. University comments on adequacy of patterns indicated in (i).

Although Form I is sufficiently clear in itself to enable broad comparisons to be made, it is suggested that care must be exercised in comparing the <u>actual</u> results of one year's operation - 1969-70 - with the <u>budgeted</u> estimates of the succeeding year, 1970-71. The latter, while reflecting budget updates to October 31st 1970, is still a "preliminary" budget based upon enrolment (B.I.U. entitlement) as originally projected for 1970-71 and to this extent may be quite different from the actual results that will ensue.

A word of explanation is in order concerning the expenses shown for 1969-70 under the heading of "Plant Maintenance".

This University follows the practice of "encumbrance accounting" whereby commitments of the University are recorded in the accounts as liabilities. This results in showing as expenses those items for which the University has an obligation not—withstanding the fact that goods or services have not been received or rendered by the year end date. Although this practice has been used for several years the large number of contracts entered into in the latter stages of 1969-70, for "non-recurring" renovations necessary because of the acute space shortage, cause this expense category to be unusually high in 1969-70.

The policy of this University for the past three years has been to set aside from total operating income amounts for the future acquisition of library books for the new library building and for library and general university development. This we believe to be necessary for two reasons, namely:



- (a) library book acquisitions, cataloguing, etc. to stock a new library building are considered by the Department of University Affairs as an expense to be borne by operating grants, and
- (b) this University will be required, in the very near future, to maintain buildings which will not generate sufficient additional income through additional student numbers to offset the extra maintenance costs. In this case, it is considered that recurring costs ought not to be built into present spending patterns which could cause financial embarrassment in future years.

The University has therefore, been able to operate satisfactorily on the income that has been made available. However, some concern is evident with the less than 5% increase announced for the basic income unit value for 1971-72 and this may cause some "shift", although probably not a "major shift", in percentage resource allocation between the various areas of the University from those that will be experienced in 1970-71.

The University is extremely disappointed at losing in 1970-71, the advantage of the temporary accommodation assistance that was provided in 1969-70. The very acute space situation makes it imperative that off-campus premises be rented. This, in our opinion, is a special situation and it is considered that special assistance should be made available to help defray the cost involved.

The expenses deducted from gross expenditures for ancillary enterprises and for programs in education have, to the best of our ability, been calculated on the basis of full cost.

Maintenance costs and general overhead have been allocated using the unit cost and percentage respectively that apply to the University generally.



(b) Resource Allocation - University Operating Funds.

iii. Outline of sources of revenue and expenditures for ancillary operations for the years 1969-70 (actual) 1970-71 (estimated) and 1971-72 (forecast) - as per Form J.

Please refer to Form J, (page 2.19).

As indicated in (ii) above, the expenses of ancillary operations are shown on the basis of a full-cost calculation.



ANCILLARY OPERATIONS (1) 1969-70 Actual

fotal for All Ancillary Enterprises Form CUA 70-J

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10 0001	Budget		1,367	1.367		784		784	c Q U	200	265	(6)	6	Z. Z.
00,001	Actual		1,301	1,301		962		962	n C	COC	355	150	(150)	Ni 1
	Parking		64	64		13		13	, i	10	51	Ni 1		N. i.
	Properties		194	194	The state of the s	54		54		140	56	84	(64)	Nil
	U.O. Press		116	116		102	The state of the s	102		14	11	8	(3)	Ni 1
	Bookstore		438	128		406		406	The state of the s	32	33	Nil	1	Nil
	Health Sciences		152	150	102	87		87		65	-	558	(59)	Nil
	Residences		313	o.o	213	133	and the state of t	133		180	5	5	(5)	Ni 1
	Vending Machine		24		5.4	eed		-	4	23	23	Ni1	#	Nil
	MANY OF ANCHIARY ENTERPRISE		1, Fig. or membership revenue. 2. Direct charges for goods or services.	3. Other.	TOTAL DIRECT REVENUE	1. Costs directly attributable	2. Costs shared with other ancillary enterprise(s).	Shows addition throws	EXCESS (shortfall) of Direct	Prieste over Direct Costs	11:DIRECT (Overhead or Joint) Costs - 'as ordinarily budgeted but excluding transfers	FXCESS (shortfall)	NET EFFECT OF IRANSFERS "(To)"and	TECRISO OR SUSCETED EXCESS OR CONTRACT ON ANGITARY ENTER-

(1) Those enterprises that are not directly related to the educational functions of the university, but are undertaken or operated to provides to faculty and students. For purposes of illustration, operations which may be recognized as ancillary enterprises are student revidence, student enterprise parking facilities, alumni services, cafeterias, dining halls, book stores, university presses, intercollegiate and intramural achieving benefit services (except portion provided as part of counselling or advisory services) etc.

Ffrance Branch



- (c) Effects of the Academic Marketplace.
 - i. University comments on general conditions in finding qualified faculty members.

Being a bilingual institution presents a major problem in the finding of qualified faculty members. Frequently it is not possible to recruit bilingual full-time staff members in certain disciplines and, on occasion, the task is just as difficult when looking for part-time staff.

Other problems encountered vary from discipline to discipline and with the level of staff being recruited. Recruitment of senior staff is usually most difficult with the Faculties and Schools frequently having to turn either to the United States or abroad to find the calibre of personnel they want.

The School of Nursing, for example, finds it difficult to recruit senior teaching staff in Canada and cites the following reasons for this situation:

- lack of financial assistance available to nurses who may be interested in undertaking graduate studies;
- scarcity of graduate programs with major in clinical specialities of nursing in Canadian and Ontario Schools of Nursing.

In Science and Engineering the recruiting of qualified teaching staff does not present any major problems and in some areas there is a surplus of well-trained scientists.

However, in certain fields such as hydrology, pollution control,



engineering design and computer science new-graduated Ph.D.'s are available but there is a shortage of experienced scientists.



- 2. Factors affecting levels of university support
 - (c) Effects of the Academic Marketplace.
 - ii. Detailed outline of sources of new faculty appointed during the period 15th September, 1969, to 15th September, 1970, including citizenship status and country of first and last degree as per Form K.

Please refer to Form K (pages 2.23 and 2.24) for details of the citizenship status and country of first and last degree of new faculty appointed during the period September 15, 1969 to September 15, 1970.



This return to requested in order to update the Citizenship Analysis of University Faculty carried out by the C.P.U.O in early 1970. Please note that discipline areas (and programs included within such areas) remain those of the Dominion Ruresu of Statistics. Form CUA-70-K

DISCIPLINE AREA	CANADA	UNITED	UNITED KINGDOM	OTHER COMPON- WEALTH	PRANCE	O'THER
ACCREGATE PICURES - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of 1st Degree - Country of 1st Degree	94 74 74 64 (a)·65 (b) 58	14 11 11 12 27	10 13 12 12	48012	F 6 8 8 F	8 18 25 12
FACULTY ALMINISTRATION - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of lst Degree - Country of last Degree	O NONE					
Pure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	20 13 (a) 11 (b) 7	コスクのサ	ପଳଳଳ	ннн	74000	e e ⊣ e
Applied - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of 1st Degree - Country of last Degree	ਜਿਜ ਜਿਜ	аанее	н			
SOCIAL SCIENCE						(
Fure - Country of Residence in Year Previous to Appointment - Citizenship Status at date of Appointment - Citizenship Status at birth - Country of lst Degree - Country of last Degree	### ##################################	m 00 00 25	⊶			N 10 00 N N
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Finance Brench 6/10/70



2. Factors affecting levels of university support

- (d) Operating and Capital Support.
 - University comments on policy of maintaining differentiation between operating and capital assistance:
 - i. On a University basis.
 - ii. On a system wide basis.
- (i) It is our opinion that the concept of merging capital and operating support from a theoretical point of view may have considerable merit. There are however, certain implications in a scheme of this nature that give cause for concern.

A single combined grant seemingly would provide a university with greater autonomy by allowing priority decisions, vis-à-vis capital versus operating expenditures, to be made internally. When one looks into the matter more deeply, however, the question arises as to how the granting agency could permit such priority decisions to be made by universities. This is particularly evident when one considers the Government of Ontario policy that ensures that a place will be available in a university in Ontario for every qualified applicant.

Surely this has considerable implications over capital expansion programs and it is debatable whether the sum of the decisions made by individual universities can provide reasonable assurance that the needs of the system will be met.

Under present financing arrangements there exists a certain degree of flexibility. Certain "capital type" expenditures - replacement and additional furniture and equipment, major scientific equipment, library book acquisitions, renovations - are made out of operating grants. Considering this flexibility we do not see the need to consider a merger of the grants in the immediate future, from either the University or from the system-wide point of view. We believe, however, it is a matter that should be studied further.



- (ii) Concerning the second part of this agenda item, a system-wide position paper on the concept of merging capital and operating support has been prepared by the Sub-committee on Capital Financing to the Committee of Presidents. This position paper was prepared following a meeting of finance officers called to discuss the question and also following correspondence between C.P.U.O. and the Chairman of the Committee on University Affairs. This University supports this position which, for convenience, is reproduced below:
 - "(1) A final approved capital formula should be developed and tested in practice for a period of some years prior to implementation, if any, of a combined formula.
 - (2) During the period of development and test of the capital formula, a special study group consisting of representatives of the Joint Subcommittee of Finance, Joint Subcommittee on Capital Studies, and the Committee of Finance Officers of Ontario Universities should explore the benefits and disadvantages of combining the formulae, such study to include funding practices as between capital and operating in other university systems, in government, and in large private and public corporate structures."



3. Future Planning

- (a) Updating of five year forecast (as submitted in the fall of 1969).
 - i. Undergraduate enrolment forecast for each year to 1975-76 as per Form L.

Please refer to Forms L (pages 3.2 and 3.3) for total (graduate and undergraduate) student enrolment forecast for each year to 1975 76. Since students in Education do not have an operating formula weighting they have been reported separately (page 3.3).

Appendix "B" contains full details of these projected student enrolments according to the organization of disciplines at this University.



LONG-TERN SYNDER PATA

90 3975-74

Instruction:

- 1. Please couplete this report as a memor consistent with the excelerat colonomication achieve and definitions reflected as the regular F.V.A. Excelerat Separts (Fermi May). Note particularly, however, the precise requirement under itse (1) which is for requirement in the lat University year subsequent to Grade 13 late undergraduals (1) regress only.
- 2. For the University of Gaciph and the University of Waterico, asserts reports are requested representing "Yell Torm, on compan", Fell Term "on and off" compan (Waterico), and Equivalent Full-Time (Adjustment for Co-operative and Etimester Systems) bases for earoluent.
- 5. For constituent Universities with Federated or Affiliated Institutions, Tell-Time Euroleman must take into account net teaching services performed for those Institutions, and will therefore be stated in terms of F.T.E. for teaching services performed (Toronto, Waterloo, Western and Lourentian).
- 4. Enrolments is university programme in admention should be emsinded from total University figures provided but should be reported on a separate form CSA-70-L.

1970-71 (Estimate	a) *		1971-72	1972-73	1973-74	1974-75	2925-96
1561	(1)	Full-Time "Prochasa Intake" (i.e. lot Year Undergraduate Degrae)	1776	1950	2350	2310	2479
6548	(11)	Total Full-Time Badergraduate (including diplome and other non-degree and make-up or qualifying year)	7155	7631	8242	3697	9469
1034	(111)	Total Graduate (Fall-Torm)	1100	1362	1501	1640	1764
7582	(1v)	Total Full-Time Saroleent (ii plus iii)	8255	8993	9743	10587	11253
2061.5	(4)	F.T.E. of Part-Time Eurolment using Formula Conversion Factors (including "Summer School" Graduate Students)	2334.1	2451.0	2631.0	2793.0	2990.0
9634.5	(vi)	P.T.E. Enrolment (iv plus v)	10509.1	11444.0	12505.	1939.0	-
16964.9	(vii)	Total Basic Income Units Under Formula (1.e. Total Weighted Emrolment)	18656.5	20619.0	22393.0	24252.	0 25954.0

Explanatory Community outlining variations in above encolusive later as compared with challer forecasts superized Fall, 1969 (Flance dust with both the quantifative personators of these variations and the reasons for them):

As of November 14, 1970.

a. All programs except Education (reported on separate form).



FORM SUA-70-1.

LOUIS-WERM ENROLLIENT BATA

20 1975-76

Instructions:

- 1. Please complete this report in a manner consistent with the involuent estegorization scheme and definitions reflected on the regular D.U.A. Enrolment Reports (Forms UAI). Note particularly, however, the precise requirement under item (i) which is for registration in the lat University year subsequent to Grade 13 into undergraduate degree Programs only.
- 2. Por the University of Guelph and The University of Materico, separate teperts are requested representing "Pail Torm, on cannot", Pail Term "on and off" campus (Materico), and Equivalent Full-Time (Adjustment for Co-operative and Trimester Systems) bases for earolment.
- 3. For constituent Universities with Pederated or Affiliated Institutions, Pell-Time Enrolment was take into account not teaching service perferent for those Institutions, and will therefore be absend in terms of F.T.E. for conceing services perferend (Toronto, Matern and Laurentian).
- 4. Enrolseste is eniversity programme is education phould be escluded from total University figures provided but should be reported on a separate Form CSA-70-L.

1970-71 (Estimate) a		1971-72	1972-73	1973-74	1974-75	1975-76
406	(1)	Pull-Time "Prosbmen Inteke" (1.e. let Year Undergraduate Degree)	450	605	709	_600_	000
426	(11)	Total Full-Time Undergraduate (including diploma and other non-degree and make-up or qualifying year)	460	C & 0		\$40 0	260
203	(111)	Total Crainate (Pall-Tarm)	200	200		200	200
631	(iv)	Total Full-Time Enrolment (ii plus iii)	8308	8400	900	2000	1000
625 ^b	(4)	F.T.E. of Part-Time Enrolment using Formula Convertica Factors (including "Seasor School" Stannan Stannan)	082 ⁸		0869	900	980
1256	(v1)	7.T.E. Enrolment (iv plac v)	1512	1720	2072	2000	2906
W/A	(v11)	Total Basic Income Unite Unity /otm.le (i.e. lotal Weighted Engolment)	M/A	W/a	N/A	B/A	0/A

Explanatory formatts outlining warfactions in above experience in the two terraped with director formatter and the first control of the second of the second

- * As of November 14, 1970.
- a. Education programs only (all other programs reported on superate form).
- b. FTE Calculated in the same manner as for other disciplings.



3. Future Planning

- (a) Updating of five year forecast (as submitted in the fall of 1969).
 - ii. Outline of changes in proposed developments since previous forecast, with documentation as to reasons for such changes, and new developments for 1975-76.

In 1967, the University of Ottawa formulated a plan for development which contained a series of proposals, academic goals and projected student enrolment by discipline for the next eight years. On the basis of this information a physical master plan, indicating building sites was prepared.

The University is now three years into the period projected by the Development Plan Report and already many changes, both in the area of academic programs and groupings and in the proposed physical plan of the campus have occurred. The original projections of the Development Plan Report were based both on student enrolment estimated by Faculties and Schools and on the space limitations imposed by the physical boundaries of the future campus. However, with the recent decision to construct the Health Sciences Complex off-campus the physical constraints have changed to the extent that approximately twenty-three acres (almost one-third of the campus) have become available for University use.

As the first step in a major review of the University's development plan, the Academic Planning office prepared last September, a working paper on projected student enrolment to 1975-76. The working paper took into account changes in the University's programs and physical constraints as well as external factors and student preferences in making proposals for enrolment projections by discipline. Copies of this working paper in which specific proposals were made for projected student enrolments, and relevant documentation from



the Ontario Institute for Studies in Education, the Dominion Bureau of Statistics and the Department of University Affairs were then forwarded to the Faculties and Schools for consideration. Moreover, a significant part of the document was aimed at making the Faculties and Schools more aware of the need to be more accurate in predicting future student enrolment.

On October 30, 1970 the Academic Planning Committee met to consider the working paper proposals. As a result of this meeting the University's projected student enrolments by year and by discipline were revised as indicated in Appendix "B" (which also includes explanatory notes). The Academic Planning Committee also recommended at this meeting that the University should plan to accommodate about 3,000 additional students subsequent to 1975-76.

Student enrolment increases over the past five years for the University of Ottawa are shown below. It is seen that the pattern of annual increases in full-time student population has not been very consistent.

YEAR	TOTAL FULL-TIME	% INCREASE
1966-67	4,650	8.1
1967-68	5,050	8.6
1968-69	6,150	21.8
1969-70	6,847 ^a	11.3
1970-71	7,772 ^b	13.5

The University of Ottawa recognizes that its enrolment projections have been conservative over the past two years but wishes to stress that, except for certain areas where the shortage of space is too critical (e.g. Physical Education,

a. For comparison purposes, 353 students in Teacher Training programs are excluded.

b. Estimated actual enrolment as of November 1, 1970 excluding students in Teacher Training programs.



Medicine, Nursing, Law and certain programs in Arts), the University has not sought to limit student enrolment.

The fact that the University of Ottawa is a bilingual institution with some unique programs puts it in a category by itself insofar as examining enrolment trends. The University's situation is further complicated by the significant intake of students from the province of Quebec. For example, last year the goegraphical distribution of the approximately 7,200 students was as follows: Ontario - 51.5%, Quebec - 31.9%, other provinces - 2.3%, outside Canada - 14.3%. In addition to the emergence of CAAT's in Ontario, the recent establishment of CEGEP's in Quebec has also exerted an influence on the distribution of students at the undergraduate level at this University (see item 3 (e) iii).



3. Future Planning

(b) Capital requirements - as per interim capital reporting schedules (Forms M-1 to 5).

Please refer to Forms M-1 to M-5 inclusive (pages 3.10 to 3.15) and to Form N (page 3.16).

The revised enrolment estimates for the period under review have made it necessary for the University to recalculate its capital entitlement under the interim formula arrangement. The schedule immediately following this introduction (page 3.9) reflects the calculation of the revised entitlement based on the weighted enrolment reported on Form N. The results of this calculation appear as the opening balances on Form M-4.

The Ontario Fire Marshal has indicated to the University that an extensive amount of work needs to be undertaken in a number of the older buildings that are to be retained as part of the permanent campus. The total cost of this work is estimated at \$3,321,00 and is required in order to satisfy the requirements of the Fire Marshal's office. Certain of the work, estimated to cost \$842,000, has been designated as necessary in the immediate future, while the balance should be completed over the next four to five years. A detailed report in this regard has been submitted recently to the Department of University Affairs. The University respectfully requests that these projects be considered as "non-formula" and, accordingly, the estimated annual cash flow requirements have been included on Form M-5 (page 3.15).

In view of the decision to move the Health Sciences Centre to an off-campus location at Alta Vista and Smyth Road a special committee of the Senate has been established to examine the implications that this will have on academic programs and



consequently on capital projects. The capital projects listed on Form M-4 are presented on the basis of the presently approved Master Plan. The list of projects could change as a result of revisions to the Master Plan following the findings of the special committee.



UNI VERSITY OF OTTAWA

INTERIM CAPITAL FORMULA - REVISED CASH FLOW ENTITLEMENT

	1970-71	1971-72	1972-73	1973-74	1974-75	1975-76
heighted Full-Time Enrolment - (CUA - 70 - N)	9,457.5	10,611.5	11,765,0	11,765.0 12,873.0	13,936.0	14,727.0
Space required at 96 NASF per weighted unit of enrolment	907,920	1,018,704	1,129,440	1,129,440 1,235,808	1,337,856	1,413,792
Space required at 24 NASF per F.T.E. for part-time students (CUA - 70 - N)		75,984	79,944	86,136	90,264	94,800
Cumulative total space required	972,408	1,094,688	1,209,384	1,321,944	1,428,120	1,508,592
DEDUCT: ALLOCATION INVENTORY	(460,934)	(457,478)	(441,163)	(435,081)	(380,927)	(380,927)
Cumulative new space entitlement	511,474	637,210	768,221	886,863	1,047,193	1,127,665

Cumulative cash-flow entitlement at \$55 per NASF

for new space entitlement in following year

\$35,046,550 \$42,252,155 \$48,777,465 \$57,595,615 \$62,021,575 \$66,000,000 Estd



662

561

299 20,649

250

100

233 22.653

Additional Firencial Assistance (Above Projects)

13 26

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59

3

26,668

26,243

15,112

5,277 475

29,118

TOTALS

University RELARKS OTTAKELA PROBABLE CUMULATIVE 5 YEAR CASH FLOW FOR FORMULA CAPITAL PROJECTS WITH FINAL APPROVALS 1974 - 75 570 915 7,423 2,224 5,444 9,727 877 27,859 142 949 Cash Flow of Financial Assistance in \$ 000's 1973 - 74 5,444 915 27,069 778 570 7,423 2,224 949 9,727 SUBSEQUENT TO APRIL 1 - 1969 AND BY MARCH 31 - 1971) 1972 - 73 915 5,444 778 570 27,869 7,423 142 9,727 2,224 646 1971 - 72 3,932 9,727 778 570 7,423 2,224 25,442 646 17 - 0791 2,716 14,313 7,423 2,234 110 989 712 04 - 6961 4,6002 217 3,151 934 28 121 301 Assistance Financial 27,0%9 570 915 7,423 2,224 142 646 5,444 9,727 778 Total a:000 \$ uI Expenditure 915 Approved Total 5,894 9,727 778 570 29,118 8,063 2,341 150 8 Physical Education Bldg. daint.Serv.Bldg.-Ph I-II umberland St. Residence Stanton Hall Residence enov.-Electrical Eng. sciences (Eng.) Bldg. ow Temperature Lab. hild Study Centre Project Name Central Library Sub-TOTALS

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CUA/70/14-1

Ontario Department of University Affairs - Architectural Services Branch



REMARKS University CUA/10/M-2 Projects now Completed OTTAWA Subsequent NIL PROBABLE YEARLY 5 YEAR CASH FLOW FOR "FORMULA" CAPITAL PROJECTS WITH FINAL APPROVALS Balance of Financial Assistance in \$ 000's 1974 - 75 NIL 1973 - 74 NIL 1972 - 73 NIL 1971 - 72 (PRIOR TO MARCH 31 - 1969) NIL Assistance to March 31/71 Probable Financial NIL Assistance Total Financial In \$ 000's NIL Total Expenditure Approved NIL requiring additional funds) (list only those projects Project Name Project So.

Ontario Department of University Affairs - Architectural Services Branch



PROBABLE YEARLY 5 YEAR CASH FLOW FOR "NON-FORMULA" CAPITAL PROJECTS WITH FINAL APPROVALS

(AS OF MARCH 31 - 1971)

University

OTTAKA

CUA/70/14-3

Subsequent (list formula project which correlates)	Verlous Various Various Various Various Various Various Various Various					
Subsequent			Of the financial state of the s			
Malance of Financial Assistance in \$ 000° s 72 1972 - 73 1973 - 74 1974 - 75 Su			project can be supplied to the measure of the supplied to the			
1973 - 74			Communication of the Communica			
1972 - 73	31	31	31			
1971 -	13 1,711 540 200	2,464	2,464		1761	
Probable Financial Assistance to March 31/71	587 (1) 156 (1) 22 (1) 1,653 (1) 34 810 480 (1) 79 (1) 170 (1) 1,104	5,152	5,284	1,813	of report to March 31st that date.	
In \$ 000's Total Financial Assistance	600 156 2,22 1,653 34 2,521 1,020 1,104 1,104	7,647	7,779	31st 1971		
Approved Total Expenditure	631 164 27 1,740 1,740 Estd 2,521 Estd 1,020 Estd 401 Estd 401 Estd 1,104 Estd 57	7,779	7,779	Credit at Merch	onal funds from	
(list only those projects requiring additional funds) Project Name	Inner Access Roads etc. Ph II Steam & Ch. Water Dist. Ph I Site Protection - Sc. Bldg. Land Acquisition - 1969-70 Demolition - 1969-70 Maint. Services Bldg. Equip. I Tunnel System - Ph II & III I I I I I I I I I I I I I I I	Sub-totals Additional Financial Assistance on above Projects - (Special Credit)	TOTALS	Estimated Balance of Special Credit at Merch 31st	(1) Projects requiring additional funds from date but which it is expected will be finalized by	
Project No.	94 45 94 45 94 45 94 94 94 94 94 94 94 94 94 94 94 94 94					

Ontario Department of University Affairs - Architectural Services Branch



PROTOSED CUMULATIVE 5 YEAR CASH FLOW FOR ADDITIONAL PROJECTS

Page (1) CUA/70/M-4

(All Amounte In \$ 000's)		FOR INTERIM CAPITAL FORMOLA ENTITIONENT	AFILAL FORMO	TU DIALLE	EMENT			Univer	University
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				1971 - 72	1972 - 73	1973 - 74	1974 - 75	1975 - 76	
Interim Formula Cumulative C	Cash Flow Entitlement	ent As Per May 1st,	1970	42,252	48,777	57,596	62,022	000,99	
Total of Probable Cumulative Projects With Approvals As	Cash Of M	Flow For Formula	(Table M-1)	26,241	28,658	28,663	28,668	28,668	· /
Project Name	Approved Date of Last Status Approval	Last Estimated Total	Total Financial Assistance	16,011	20,109	28,928	33,354	37,332	Balance
OT 41 University Centre	4 0ct 13/70	5,936	5,075	1,380	4,340	5,075	5,075	5,075	
	· · · · · · · · · · · · · · · · · · ·	*** 5.935	5.075	14.631	15,769	23.853	2P. 279	32,257	Balance
OT 49 Law Building	4 Nov 16/7	5,700	5,700	1,560	4,689	5,700	5,700	5,700	
存证据转转转数据转转转转转转转转转转转转转转转转转转转转转转转转转转转转转转转转	经各种条件条件条件条件条件条件条件条件 存件条件条件条件条件条件等件条件条件	*** 11,636	10,775	13,071	11,089	18,153	22,579	26,557	Balance
OT 52 Faculty of Education Bldg.	4 Nov 16/70	0 4,713	4,700	1,260	3,980	4,700	4,700	4,700	
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Biochamistry-Biology Link	t	400	400	460	400	600	400	400	
状状外部特别证据特别特别的特别的特别的特别的特别的特别的特别的特别的特别的特别的特别的特别的特别	· · · · · · · · · · · · · · · · · · ·	*** 16,749	15,875	11,411	6,709	13,053	17,479	21,457	Balance
Removations - Arts Bldg.	8 1	530	530	1	200	530	530	530	
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Residonces - 3 & 4	9	7,440	1,575	4	\$	775	1,575	1,575	
· · · · · · · · · · · · · · · · · · ·	企业中的市场中央企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业	24,719	17.989	11.411	6.503	11,748	15,874	19,352	Balance
Renovetions - Admin. Bldg.	9	2,000	2,000	I I	9	750	2,000	2,000	
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Hessnities Building	1	7,600	7,600	ŧ	*	200	3,500	6,500	
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PROPOSED CUMULATIVE 5 YEAR CASH FLOW FOR ADDITIONAL PROJECTS

Page (2) CUA/70/M-4

OTTAWA

Estimated Balance Balance Balance Salthes Balance Balance Balance University 1975 - 76 8,993 6,833 9,143 9,093 399'6 100 9,928 525 20 100 10,852 636 Financial Assistance 9,015 9,013 9,013 100 9.073 260 50 1974 -Probable Cumulative Cash Flow Of 1973 - 74 10,157 10,417 8 6,503 6.208 6,509 6,539 6,500 6,509 - 73 FOR INTERIM CAPITAL FORMULA ENTITLEMENT 1972 1971 - 72 11,411 11,411 11,411 11.411 11,411 Approval Date of Last Estimated Total Total Financial Assistance 27.580 (Table M-1) 39,814 36,184 3,050 39,234 560 4,500 2,120 5,300 28,504 260 924 30,864 28,764 1970 Interim Formula Currelative Cash Flow Entitlement As Per May 1st, Experditure Total of Probable Cumulative Cash Flow For Formula Projects With Approvals As Of March 31 - 1971 45,573 45,553 42,923 3,050 4,500 35,503 2,120 37,695 5,300 35,243 924 Approval Status Ronotetions - Medical Bldg. Maint. Services Bidg-Ph III Removations-News 1 Select Experimental Theatre and Sciences Teaching Bldg. Extension - Arts Bldg. Philosophy Building Project Name (All Amounts In \$ 000's) REMARKS Project No.

Ontarin Donartment of University Affairs - Architectural Services Branch

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PROBABLE YEARLY 5 YEAR CASH FLOW FOR ADDITIONAL "NOW FORKTHA" CAPITAL FROIECTS

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Ontario Department of University Affairs - Architectural Services Branch



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SUMMARY

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Daniel Control of the	1.0	D 1.5	c 2.0	3.0	4.0	SCIUARD SCIUARD
1970-71	4193	2245	238	331	107	9,457.5
1971-72	4640	2003	279	357	202	10.611.5
1972-73	4998	3000	285	415	113	11,765.0
1973-74	5552	\$276	296	£3 £6 £5	126	12,673.0
1974-75	6041	3528	308	477	139	13,936.0
1975-78	6483	3370	313	303	151	14,727.0

Does not include part-time students. An allowance of 24 NASE was made in the Interia Capital Formula last year. In order to take this into account the FTE exponent for part-time students as well as the space generated by these students for the period 1970-76 are shown below.

FTE of Part-time 70-71 71-72 72-73 73-74 74-75 75-76 Enrolment 2687 3166 3331 3589 3761 3950 HASF Generated by Part-time Enrol- 64,488 75,984 79,944 86,136 90,264 94,800 ment.



3. Future Planning

(c) Brief descriptive outline of proposed new programs: i. For 1971-72.

During the past year formal procedures and guidelines for the evaluation and the determination of priorities of new program proposals at the undergraduate and graduate levels have been established by the Academic Planning Committee of the Senate.

Details of these will be found in Appendix "C".

NEW PROGRAMS - 1971-72.

Management Sciences

During the past ten years several committees, which have included outside consultants, have recommended the development of Master's programs in business, commerce or administration at the University. In January, 1969 the Senate decided to establish a Faculty of Management Sciences with express instruction to develop a Master's program as rapidly as possible.

The establishment of this new Faculty did not represent a venture into areas in which the University lacked experience.

Departments of Public Administration and Commerce existed already in the Faculties of Social Sciences and of Arts. A School of Hospital Administration had been in operation for a number of years. A regrouping of these established departments, together with the more recently created Institute for International Cooperation, served as the nucleus of the new Faculty of Management Sciences. In addition, a department of Operations Research and Planning was created.

The departmental structures already in existence before the establishment of the new Faculty have been maintained, and the staff of each of the departments strengthened by new appointments.



Since, with the exception of Hospital Administration, the activities of the departments were hitherto restricted to undergraduate programs, the recruitment of new staff has been carried out with the aim of developing a strong graduate program in Management Sciences.

Undergraduate Program

During the first two years of the Faculty's existence the undergraduate program has been so structured that students have carried out the first two years of their studies in the Faculties of Arts and Social Sciences and the last two years in the Faculty of Management Sciences. This arrangement will be changed so that as of September 1971 all students in these programs will enrol from the very first year in the Faculty of Management Sciences. They will however continue to take a number of courses in the Faculties of Arts, Social Sciences and Science.

The present undergraduate programs provide concentrations in Commerce and in Public Administration; a third concentration in Operations Research will become formally available in September 1971. All these are four year honours programs, featuring a certain number of common courses, and correspond essentially to the honours programs in Arts or Science with specialization.

The provision of a number of courses in Operations Research became necessary at the undergraduate level in order to ensure that students at this level receive sufficient instruction in some of the more modern quantitative and planning techniques which are essential to the functioning of the world of commerce and management in our industrial and technically-oriented society. Moreover, since in the preparation of the master's program it was necessary to



ensure a strong representation of courses with emphasized modern quantitative methods, operations research and systems analytical approaches, it would obviously have been remiss not to provide the undergraduate students with an effective exposure to these aspects of Management Science. Once this decision was made it was possible in the course of organization of the Faculty to provide for concentration in Operations Research for a certain number of the undergraduate students who preferred to specialize in this field rather than in Commerce or Public Administration.

A three year general degree program has also been available and will continue in a modified from when the first year students enrol in the Faculty of Management Sciences as of 1971. For the present, the master's program in Hospital Administration is continuing much as before, but the implantation of this program, formerly the preserve of an independent School, into the Faculty of Management Sciences has made available to it expertise in additional areas of Management which should have considerable influence in strenghthening its more technical aspects. Modification of this program has been delayed pending the appointment of a new head of the School in July 1971.

During the first year of its operation the Faculty initiated a diploma program in Management Sciences which is now in its second year. The initial two years of this program represent the Faculty's first effort in post-graduate teaching and have provided valuable experience from which the Faculty has been able to benefit in developing its Master's program.



Master's Program (see pages 3.22 and 3.23).

This is a two year program, the first year of which is a preparatory year which will enable students from a number of different backgrounds to obtain basic skills and learn the fundamentals of modern management. will be possible for a certain number of students who have already obtained this training in their honours undergraduate studies to be admitted directly into the second or master's year. It is anticipated, however, that most students with a bachelor's degree in Management would be required to take some of the courses in the preparatory year. Graduates from other disciplines as far apart as Engineering or the Social Sciences would normally be expected to complete the whole first year. Since the preparatory year provides the student with general proficiency in the techniques and fundamentals of modern management a diploma in Management Sciences is awarded to those students who successfully complete this year. This preparatory year will be referred to in this document as the diploma year. The second year will be referred to as the master's year. Students who have successfully completed the requirements for the diploma are admissible into the master's year.

For the diploma eleven courses are required, of which nine are compulsory, and the selection of the other two depends on the student's mathematical background.

In the master's year eighteen half courses will be available. Eleven courses must be taken (or nine courses in addition to the undertaking of a research project and the submission of a research report), of which five are compulsory and constitute a common core, for all master's candidates. The selection of the additional six courses from the options will be made in consultation with a faculty advisor and will take into account the



student's aptitudes, his previous training and his special interests in the areas of Operations Research, Public Administration or Business Administration.

In the initial stages of the development of its master's program the Faculty has been careful to limit its scope and has preferred to develop a common program in Management with a limited degree of specialization in the areas of its strength, namely Operations Research, Business Administration and Public Administration. The underlying philosophy of a large common core in the program is that management skills are fundamentally common and applicable to all types of managerial environments. Thus, it has been possible to hold to a minimum the degree of specialization considered essential to the program at a time when this young Faculty is making its initial venture into graduate studies and to permit the most efficient use of the limited manpower and material resources currently available.

The new program emphasizes the system analytical and behavioral aspects of modern management considered essential in the increasingly complex environment of our technological society. Since knowledge of quantitative methods and behavioral sciences is of growing importance for modern managers in the private and public sectors of the economy, it can be confidently anticipated that such a forward looking program will fulfill a definite need in our increasingly complex and technically-oriented society.





PAGE 6

NEW PROGRAM INFORMATION

(PERAMATE FORMS - UAA PAGES A AND E - MUST BE BUBLITTED FOR EACH NEW PROGRAM)

UNIVERSITY DE PERQUA

TITLE OF PROGRAM Master's Degree - Management Sciences

INDICATE NUMBER OF YEARS DURING WHICH RETRACRDINARY PINANCIAL AGGISTANCE IS EXPECTED. (USE CURRENT COLLARS AND EUROCHY BASIC 1900012 UNIT VALUE IN EDTINATING INCOME AND EXPENSE)

MITIAL EMPANOLS	VIRUS VIAR	COCORD	THIRD	POURTH	FIFTH
DEFENDENCE COM PREMIORIES COPANIO	20	35	1 4.2	60	30
CRADUATE ENROLMENT Part-time		20	5.6	0.0	80
	-	-	sate	-	-
UNDERGRADUATE EGROCHERT				1	
WEIGHTED EDINOLDIEMY	80	133	142	206	236
STAPF FOR MEN PROGRAM		1 0	100	2 2	2.2

ESTIMATED OFFICEATING DIFFERENCE

	18	(S	8	15	18	8
ACADEMIC BALAWISE		230,000.	298,000.	1280,300.	250,700.	200,700.
MEASUME OTHER ESPENSES (MEASONS PRINCE CEREFITS)		30,700.	20,700.	38,800.	50,300	\$0,500.
OYMER OPERATING EXPENDED (INCLUDING PRINCE DENERITS)		72,300.	72,300	82,200.	39.700.	89,700.
	1	and the same of th			13	3
TOTAL ESTIMATED EXPENSE		201.000.	242,000.			208,200.

STREATED OFFICE VINE DECORES

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ACADOMIC PERM	-		£	1	1	
PORRULA		203,900.	193,800.	245,700.	356.400.	802,300.
OTHER OPERATING INCOME	S S	3	13	15	15	5
TOTAL ESTIMATED INCOME		103,600.	193,300.	205,700.	836,403.	302,200.
	18	18	١	7	8	is
EXCESS OF EXPENSE OVER INCOME		137,200.	47,200-	20,300.	(87,800.)	(100,500.)
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LAND AND BUILDING PURNISHINGS AND PIXTURES ECU.PHENT OTHLE TOTAL ESTIMATED

> Peter rilotand SIGNATURE OF REPORTING OFFICER





NEW PROGRAM INFORMATION (TO ACCOMPANY UA4 - PAGE 4 FOR EACH NEW PROGRAM)

TITLE OF NEW PROGRAM Master's Degree - Hanagement Sciences
OUTLING OF NEW PROGRAM
The new present will encourage three there are inflations
Business Administration. Public Administration, and Operational
Research and Planning. It is anticipated that this program will
be initiated in September 197%.
PISTINCTIVE PEATURES OF NEW PROGRAM
The proposed program will januar, the unit is singular acquara. Fines
it will be offered to both English and France, the country the roof
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3. Future Planning

(c) Brief descriptive outline of proposed new programs:

ii. For 1972-73.

NEW PROGRAMS - 1972-73

Criminology (see pages 3.32 and 3.33).

Ph.D. Program

The Master's degree program in Criminology, which received approval by the Appraisals Committee of the Ontario Council on Graduate Studies, has now been in operation for over two years. As originally planned, this program was to be extended to a Ph.D. program once the Master's program had been established. At the meeting of the Academic Planning Committee of the Senate on October 30, 1970 it was recommended that the Ph.D. program in Criminology be implemented for 1972-73.

The program will admit only a small number of outstanding graduates with a Master's degree or its equivalent in Criminology, Law or Behavioural Sciences. Each doctoral student will be expected to be or to become familiar with the program of Applied Criminology already in operation at the University and to extend his general knowledge in relevant theories, practices and research methods; the amount of the preparatory work, if any, will depend on his previous training and experience. He will also need to become proficient in one of the following areas of specialization: (a) Comparative Criminal Law and the Administration of Justice (this program will be restricted to candidates qualified in Criminal Law or Criminology), or (b) evaluative research comparing different methods in correctional and related services (open to all candidates



qualified in applied social sciences, not necessarily Criminology), or (c) another related area specifically agreed upon between the student and his supervising committee.

This program is designed to produce university teachers and researchers in the field of Applied Criminology and related areas of Social Policy. It will be a natural extension of two existing programs at the Master's level, in Correctional Administration and Criminology respectively.

The curriculum in Correctional Administration provides professional education for those who wish to practice in the field of Corrections; it emphasizes the acquisition of skills promoting change in individuals and groups within the correctional milieu. The curriculum in Criminology was from the start designed to provide the background for advanced (doctoral) studies; it was approved on that basis by the Senate and later by the Ontario Council on Graduate Studies.

While the curriculum in Corrections emphasizes field practice and the one in Criminology concentrates on theory and research, the whole orientation of the Department is practical, and theory and research are seen mainly as tools of the process whereby the problems met with in professional practice may be solved. For this reason both Master's degree curricula provide a good background for a doctoral program that would prepare teachers and researchers in Criminology with a practical orientation.

The proposed doctoral program should also meet a growing demand for education at this level in the field of Social Policy. It is in Criminology in general, and at the University of Ottawa Centre of Criminology in particular, that new methods of evaluation of the effectiveness of



correctional and other social measures have been established, and university training with specialization in this field is already being offered. A recent study of social work education in Canada (Welfare Grant Project 563-4-5) mentions only the program in Applied Criminology offered at the University of Ottawa as an example of specialized education concerned with Social Services at the graduate level and deplores the fact that there is only one doctoral program in Social Services in Canada (in Toronto) and no known plans to develop another. The only other program in Canada in a related area is at the Université de Montréal which offers a Ph.D. program (in French) in Criminology and which has a theoretical orientation.

The staff of the Department of Criminology are recognized specialists in their areas. The Faculty of Psychology, to which the Criminology program is attached, has an established reputation in advanced studies. Research funds from governments, Canada Council and foundations have been coming in at a rate of approximately \$100,000 per year and there are constant requests from government agencies for study and consultation.

Following are some of the unique aspects of the program:

(a) The program will be associated with a research centre, the Centre of Criminology of the University of Ottawa, which is a source of expertise in matters of research and policy in the field of crime and social disorganization. The research students will therefore have available among their tutors staff who are constantly engaged not only in theoretical but in action research as consultants to the Government of Canada (Department of the Solicitor General and Department of National Health and



Welfare), committees of the House of Commons, and some of the departments of the Government of Ontario and others.

(b) The bilingual and multi-cultural character of the University of Ottawa and its location in the capital of a bilingual country are also unique. The Department of Criminology can utilize the resources of the varied academic and national background of its staff, and profit from the fact that the University teaches both major legal systems in the Common Law and "Droit Civil" sections of the Faculty of Law and at a Centre of Comparative Law. This aspect of the University is gaining importance in Canada, and is almost indispensable to achieve true scholarship in the field of Criminology and the Administration of Justice. The University also offers excellent facilities for the acquisition of the second language and the Department's time-table is planned accordingly. The international Board of Consultants to the Centre of Criminology, University of Ottawa, has been consistent in supporting the present program and plans of development. At their meeting of October, 1969 they were unanimous in treating the doctoral program as a matter of urgency.*

^{*} Those present at the meeting included the Commissioner of Penitentiaries of Canada, Chairmen of Parole Boards of Canada and the Province of Ontario, Director of Probation and Correctional Institutions of the Province of Quebec, a representative of the United Nations Organization, the executive heads of the three largest private correctional organizations in Canada, and a member of the Training Schools Advisory Board of Ontario.



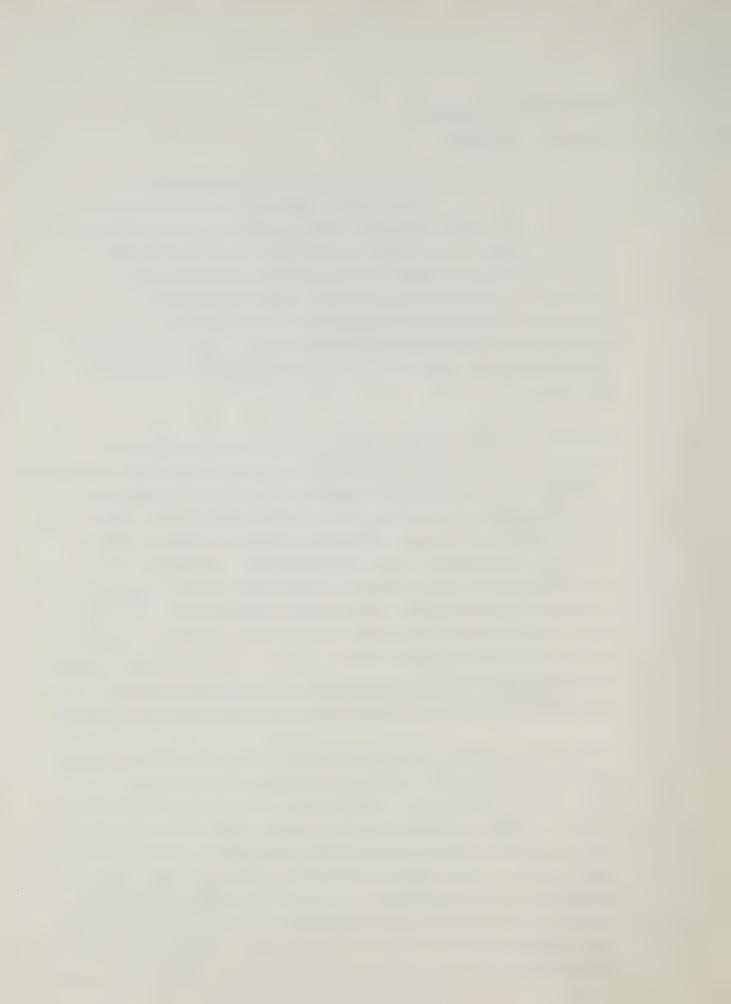
Comparative Literature

Master's Program

The Council of the Faculty of Arts, recognizing the desirability of a program in Comparative Literature in general, and especially recognizing our unique position as a bilingual institution established on January 23, 1969 an interdepartmental committee of the Faculty to design and implement a program leading to the M.A. degree in Comparative Literature. The Academic Planning Committee of the Senate recommended that this program be implemented for 1972-73 at the meeting held on October 30, 1970.

Studies in Comparative Literature offer an excellent opportunity for inderdepartmental cooperation, since they make available to students and teachers alike the scholarly and pedagogical resources of several departments. The University's bilingual character makes it ideally suited to take advantage of this opportunity. Already in the departments of the Faculty of Arts there are a number of courses that deal with Comparative Literature, and there are at the present time some dozen M.A. and Ph.D. theses being prepared on comparative topics. Our proposed program actually consists in organizing more effectively and supplementing what already exists in the Faculty of Arts.

Comparative Literature presupposes that literature forms a broad field of study which transcends national and linguistic boundaries. The purpose in studying literature comparatively is to explore and reveal the influences of one literature upon another or others, and to determine the nature of the interrelationships between literature and other areas in humanities, sciences, and social sciences. We see our students approaching their study of literature by claiming as their domain two national literatures and concentrating upon such matters as main currents of thought



and expression, periods of literary development, literary movements, genres, themes, literary history, and literary theory and criticism.

Comparative Education

Master's Program

The Faculty of Education has well-established programs at the Master's and Ph.D. levels. A proposal to extend the existing graduate programs by the introduction of a program leading to an M.A. degree in Comparative Education was considered by the Academic Planning Committee of the Senate and the implementation of such a program has been recommended for 1972-73.

The general aim of the program would be the preparation of students as research workers and professors in the area of Comparative Education. It is felt that the following qualifications would be necessary for a specialist in Comparative Education.

- (a) General Education; knowledge and appreciation of literature, the social sciences and statistics, philosophic and religious thought.
- (b) Specialized Background; knowledge of the fields of education, history, philosophy, psychology, sociology, methodology and administration.
- (c) History of Education of Canada; a thorough knowledge of the development of education in the various Canadian provinces. General Comparative Education; general knowledge of the historical development of Education and of the current educational situation and problems in the major countries.
- (d) Specialized Comparative Education; scholarly knowledge



of at least one foreign educational system within its historical and social, cultural and political context.

(e) Linguistic facilities; an ability to read with understanding the languages which are needed in research. Generally speaking the student should be able to read well the languages of the country or countries in which he is specializing.

Comparative Education involves the careful, thorough analysis of an educational system (or part of one), idea, practice or problems in the perspective of the culture and society of one or more foreign nations. This means that full and authentic information is used as the foundation for the explanation and interpretation of educational developments and issues. Comparisons, contrasts, inferences and conclusions are derived from the data as interpreted within the historical, social, and cultural frameworks of the respective nations. The method of study is basically that of historical and evaluative analysis.

The values of the study of Comparative Education include the deeper understanding of ones'own educational system -- ideas and problems. The appreciation of the educational theory and practice of other nations; the development of an objective, non-nationalist attitude toward educational issues and recognition of the criteria as to when it is desirable to consider foreign ideas for possible adoption in a national school system.

As far as we know there are no similar programs in any university of Ontario. O.I.S.E. does offer a few courses in Comparative Education. They are oriented, however, towards the statistical side of Comparative Education.



and its international reputation makes the University of Ottawa a most logical place to begin such a program. The University of Ottawa was also instrumental in organizing the first World Conference of Comparative Education held in August 1970 on our campus. At the same congress it was decided that the Secretariat of the World Council of Comparative Education would remain with the Faculty of Education's Comparative Education Centre.

Common Law

Master's Program

The Faculty of Law at this University consists of a Civil Law section, a Common Law section and a Comparative Law Centre. This fall a joint LL.L.-LL.B. program was put into operation and Common Law also initiated a certificate course for Civil and Common Law graduates in Legislative Drafting. A graduate program already exists in Civil Law and plans for a similar program for implementation in 1972-73 are being formulated.





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NEW PROGRAM INFORMATION (TO ACCOMPANY UA4 - PAGE 4 POR EACH NEW PROGRAM)

UNIVERSITY OF OTSENA

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(d) Outline of programs and/or courses to be dropped or reorganized in 1971-72 and 1972-73.

The proposed integration of Biochemistry programs in the Faculties of Medicine and of Science and Engineering under one joint Department which was reported to the Committee last year has now been implemented for 1970-71.

For some years the University has had a Department of Mathematics in the Faculty of Science and Engineering and a Department of Mathematics and General Science in the Faculty of Arts. During the past year a Senate Committee has studied this situation and recommended that one of these departments cease to exist and that all mathematics courses be taught by one department. A copy of the text of this report which is being considered by the Senate will be found in Appendix "D".

Beginning in 1969-70, proposals for new graduate courses must now be approved either by the Humanities or the Science Division Councils of the School of Graduate Studies before submission to Senate. At the same time the respective Division Councils have begun to review courses in various programs to ensure that there is the minimum of overlap in subject matter. Where analyses of course registrations have shown very low attendance in certain courses the departments concerned are encouraged to offer such courses on an alternating basis.

Library Science

In agreement with the proposals of the Ontario Committee of Deans and Directors of Library Schools it is planned to reorganize the current one-year undergraduate B.L.S. program into a two-year Master's (M.L.S.) program beginning in 1972-73.



Nursing

In September, 1971 the baccalaureate programs with functional specialities of Nursing Education and Public Health Nursing which is two years in length and opened to registered nurses will be replaced by a three-year baccalaureate program in general nursing (B.Sc.N.). The implications of this reorganization are reflected in the revised enrolment projections for nursing (see Appendix "B"). Since there will be a clinical component for the last two years of the program, a lower student to professor ratio will be required.

School of Translators

Recently there has been a growing need both in government and in industry for professional translators. Although the Department of Linguistics and Modern Languages at the University of Ottawa offers all the courses necessary for the training of translators, these have never been organized in a manner to offer degrees or diplomas in this area. The University has recently approved the creation of the School of Translators which will draw upon the resources of the Department of Linguistics and Modern Languages in the fall of 1971. It is expected that this close relationship with the Department of Linguistics and Modern Languages will maintained throughout the development of the School.



(e) University views on effects on future planning of: i. Capital formula standards as now applied.

The University recognizes that the introduction of an Interim Capital Formula for the allocation of capital funds by the Department of University Affairs has been of great benefit to the University in the construction of urgently needed facilities. The decision to give an allowance for part-time students in the generation of space entitlement has also been much appreciated by this University.

It is felt, however, that there is an important aspect of the University's physical resources which has to be considered relative to its current operations. At the present time, and until the University's construction program catches up to its student enrolment, about 40% of the University's net assignable area consists of "interim space"*. Over the next five years this space will gradually be deducted from our base inventory and this will increase the University's space entitlement. However, this year no consideration is being given to the space which the University must rent in order to operate in the intervening period until permanent buildings become available. The University urges the Committee on University Affairs to consider this matter in order that some adjustment may be made.

Apart from the 40% of the University's physical plant which consists of interim space the University's physical resources also include about 120,000 NASF in permanent buildings which

^{*} Interim space being defined as rented buildings (which amounts to about 100,000 NASF for 1970-71) and buildings which were formerly old private homes.



are over 40 years old. Although the Interim Capital Formula provides a space inventory discount of 30% for such buildings it is felt that an age-quality discount as recommended in the report of the CPUO Subcommittee on Capital Financing would be much more realistic.

As mentioned earlier a significant amount of "formula" space is currently in use by Health Sciences disciplines for which there is no allowance in the Interim Capital Formula. Education is another discipline for which weightings remain to be established and the University has already suggested that the following scale be adopted:

Undergraduates - 1.5

Masters and 1st

Year Ph.D. - 2.0

Upper Years Ph.D.- 4.0



- (e) University views on effects on future planning of:
 - ii. Changing secondary school patterns
 - Do attitudes differ among faculties of the University on this matter?
 - iii. Enrolment intake from other than secondary schools.
 - iv. Changing student preference.
 - v. Changing patterns of job opportunities.

The bilingual nature of the University of Ottawa is reflected in the balance of French- and English-speaking students which has been maintained over the years. This "natural" equilibrium of students from both cultures is a unique phenomenon of the University and there exists no policy to limit the enrolment of students from either one group or the other. (See page 3.40).

Recently more Grade 13's have become available to French-speaking students in Ontario and this has influenced the relative intake of students at the pre-university and first year levels. Over the past two years there has been a significant decrease of the number of students enrolled at the pre-university level. The table on the next page (3.39) shows that the "Pavillon de 13^e Année" which has been in operation for the past two years is the source of most of the French-speaking students (from the Ottawa area) who register in 1st year at this University.

The fact that graduating high school students in Ontario no longer write "provincial" examinations has introduced some degree of uncertainty in the admission of students. There is a feeling among some of the faculty that this has had led to a lowering of academic standards. Moreover there is considerably more flexibility in high school programs and course requirements in Grade XIII, some concern has been expressed by faculty in certain disciplines. In some cases (e.g. pure science subjects) the



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DEMANDES D'ADMISSION DES ETUDIANTS DE LA 13º ANNEE DES ECOLES SECONDAIRES "CARLETON BOARD OF EDUCATION"

GRADE 13 APPLICATIONS FROM CARLETON BOARD OF EDUCATION

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BROOKFIELD HIGH SCHOOL	27	5			
CHANTLAIN HIGH SCHOOL	31	6			
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CLEBE COLL. INSTITUTE	60	14			
HILLCREST HICH SCHOOL	75	28			
LAURENTIAN HIGH SCHOOL	46	16			
LISCAR COLL. INSTITUTE	42	6			
REPRAN BICH SCHOOL	4.1	13			
OTTAWA TECHNICAL BIGH SCHOOL	23	9			
PAVILLOS DE 13º ANNEZ	267	159			
RIDZAU HIGH SCHOOL	30	6			
RIDGENONT HICH SCHOOL	50.	9			
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UNIVERSITY OF OTTAWA

DISTRIBUTION OF STUDENTS BY

NATIVE LANGUAGE

1970-71*

FACULTY/SCHOOL	FRE:			ISH %			TOTAL NUMBER
ARTS	1754	(72.9)	613	(25.5)	38	(1.6)	2405
COMMON LAW	26	(11.5)	196	(86.3)	5	(2.2)	227
DROIT CIVIL	281	(95.6)	11	(3.7)	2	(0.7)	294
LIBRARY SCHOOL	61	(74.4)	16	(19.5)	. 2.	(6.1)	82
MANAGEMENT SC.	118	(62.4)	32	(17.0)	39	(20.6)	189
MEDICINE	109	(21.3)	332	(64.7)	72	(14.0)	513
NURSING	123	(28.3)	304	(69.9)	8	(1.8)	435
PHILOSOPHY	23	(51.1)	18	(40.0)	4	(8.9)	45
PHYSICAL ED.	277	(63.2)	159	(36.3)	2	(0.5)	438
SCIENCE AND ENGG.	609	(48.3)	471	(37.3)	182	(14.4)	1262
SOCIAL SCIENCES	259	(91.2)	19	(6.7)	6	(2.1)	284
TEACHER TRAINING	371	(90.7)	36	(8.8)	2	(0.5)	409
GRADUATE STUDIES	477	(42.6)	433	(38.7)	209	(18.7)	1119
TOTALS:	4488	(58.3)	2640	(34.3)	574	(7.4)	7702

^{*} Based on actual enrolment on October 12, 1970; the estimated actual enrolment as of November 1, 1970 was 8,176.



possibility of offering remedial courses is being considered.

This constitutes an argument favouring the retention of the preuniversity year (or of pre-university courses) at this University,
a subject which is currently receiving careful study.

As mentioned earlier in this report there is a significant proportion of the intake at the University of Ottawa comprised of Quebec students. Some important changes in educational policy have occurred in that province over the past few years. High school students who wish to pursue their post-secondary education are expected to enrol in "Collèges d'Enseignement Général et Professionnel" (CEGEP's) from which they are streamed into universities. The effect of this has been a relatively larger intake of students from Quebec at the second year level than previously experienced. On the other hand the percentage of Quebec students in the University's overall student enrolment has hardly changed.

In Ontario, the establishment of CAAT's was conceived as a complementary form of post-secondary education to the universities. Whether or not this continues to be the case remains to be seen. Until now there has not been a large intake of students from these institutions.

For the information of the Committee, detailed data on the geographical distribution of students who applied for admission to this University for 1970-71 is given on pages 3.43 to 3.45. Information on the academic qualifications of students admitted by discipline is also given on pages 3.46 to 3.48.

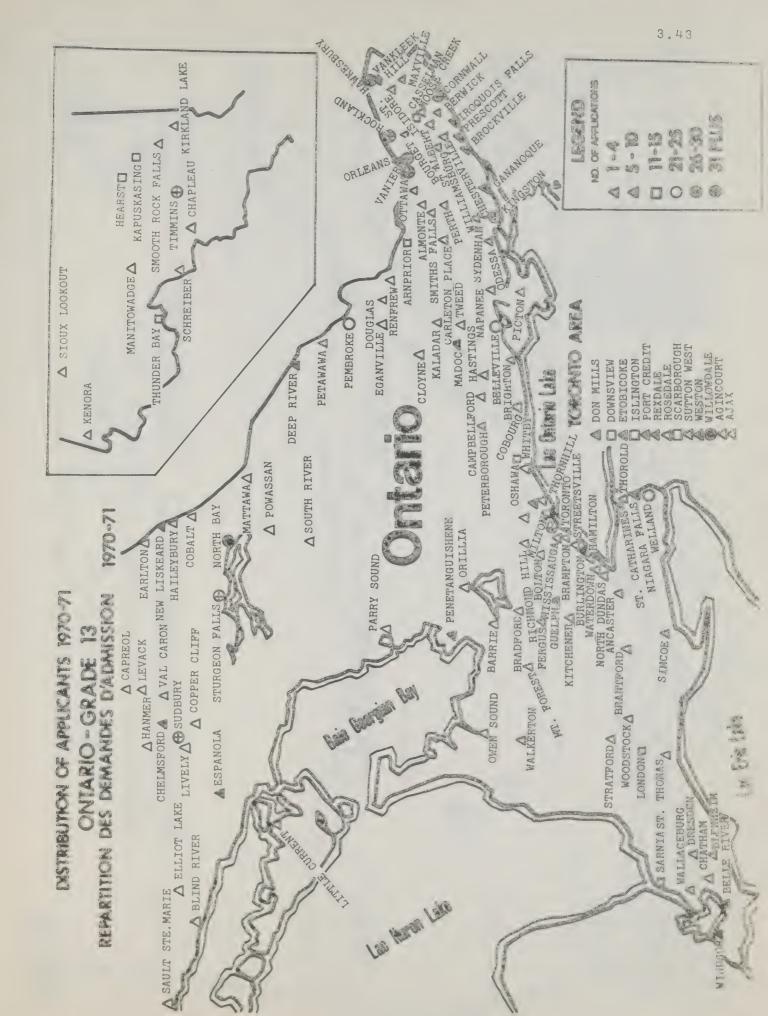
Among secondary school students there appears to be an emerging trend toward the social, psychological, and ecological disciplines.

During the past year, considerable concern has been voiced about job opportunities for university graduates in various disciplines. The University does not wish to add anything more

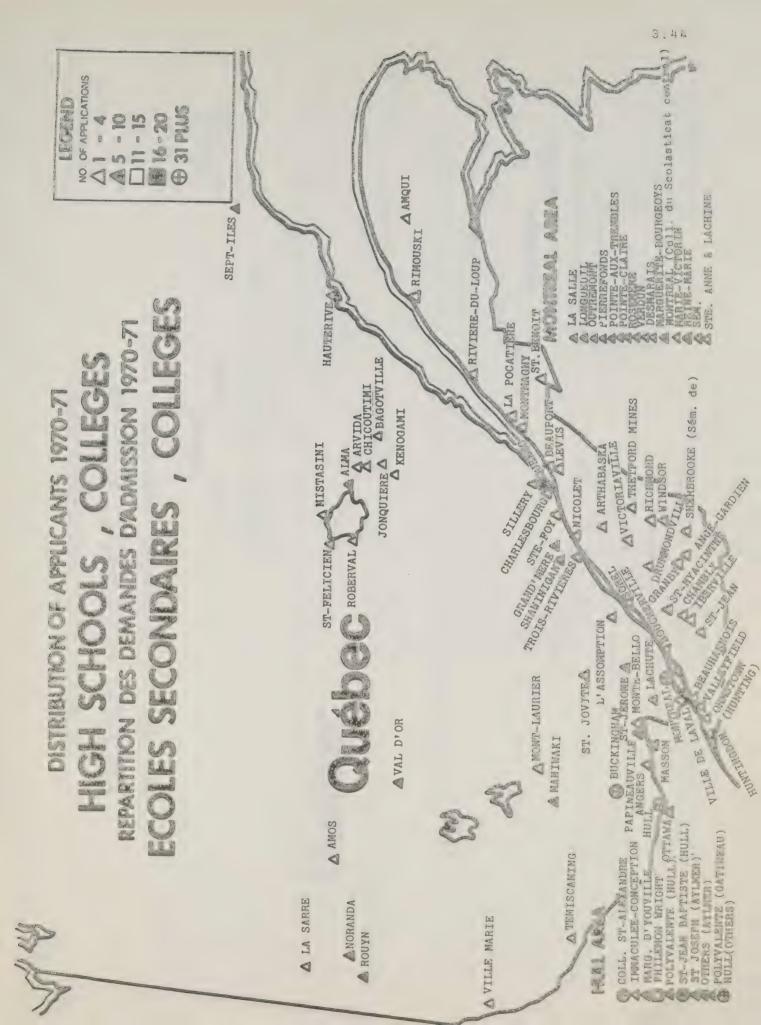


at this time to what has already been expressed elsewhere on the subject.

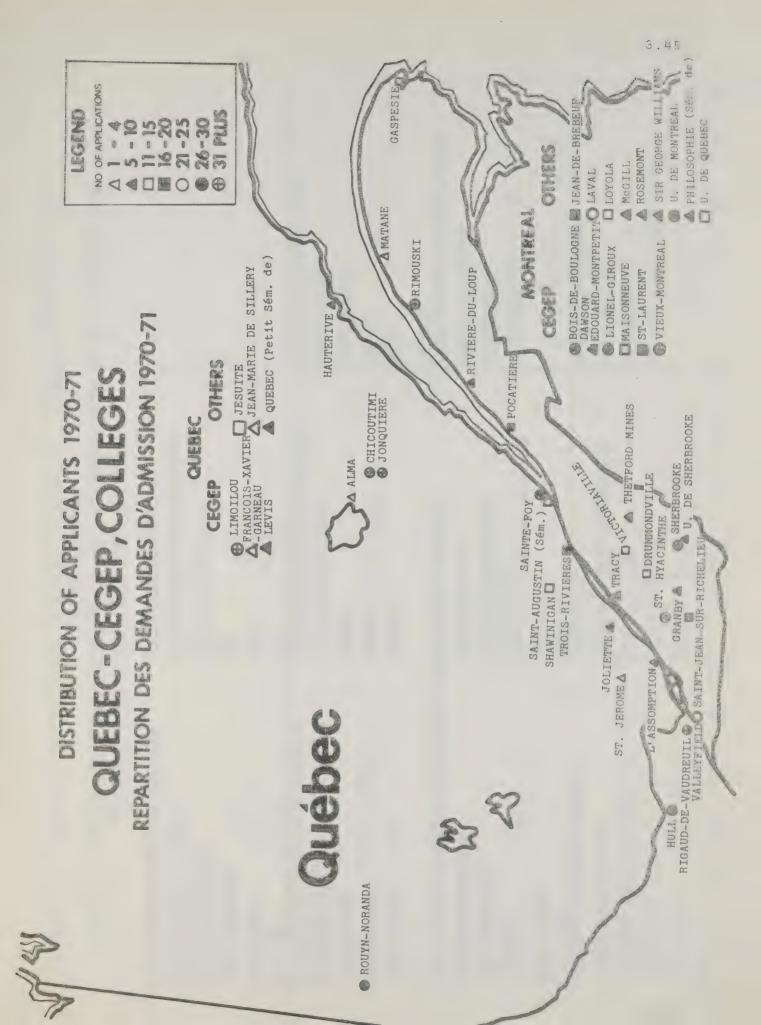










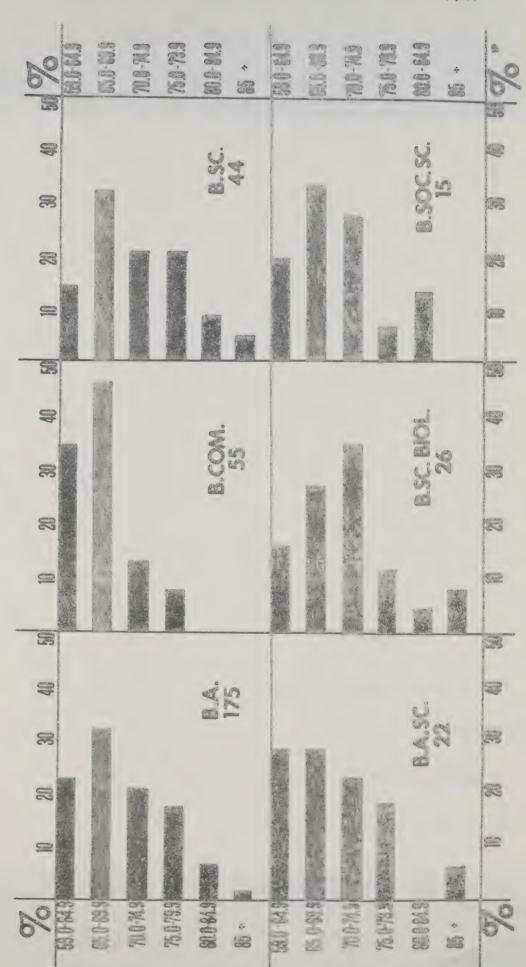


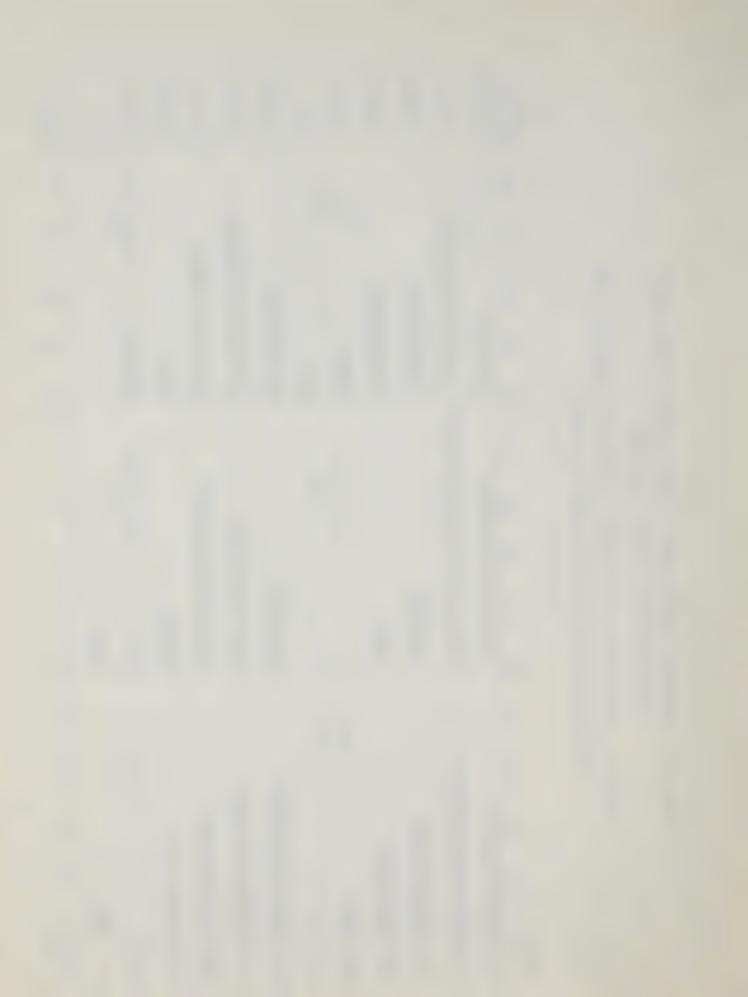


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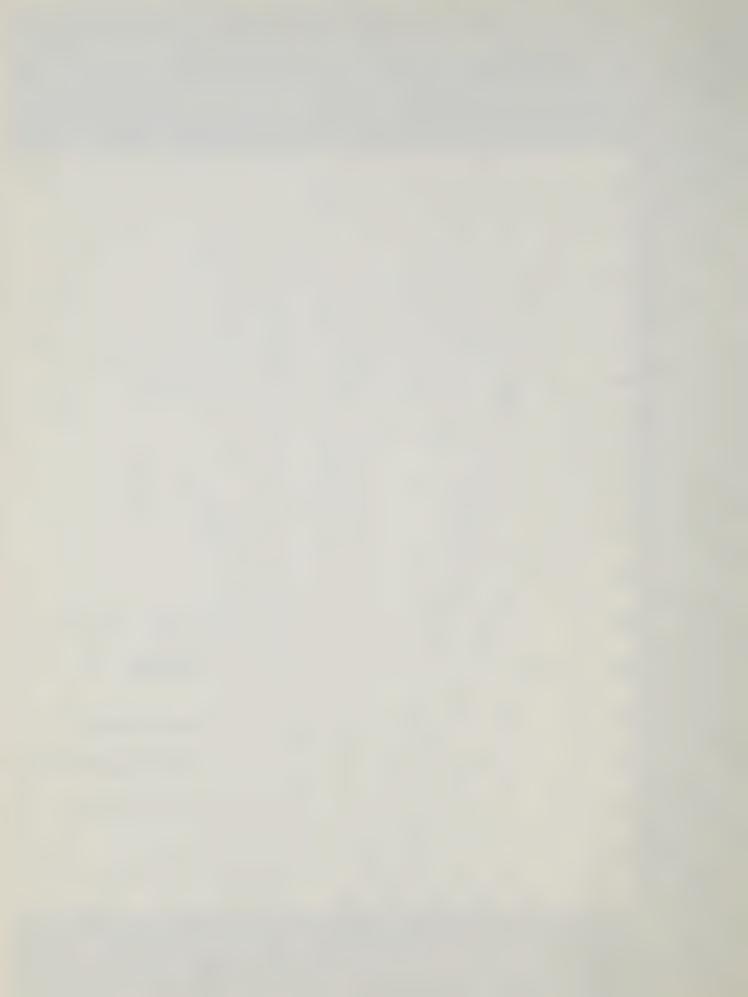
QUALITY GRAPH OF ADMITTED-REGISTERED APPLICANTS. ONTARIO-QUEBEC YEAR I

LEGEND

TOTAL (955)

GRADE 13 ONT. (622)

QUEBEC (333)



- (f) University comments on possible effects of increasing demand of student assistance from the limited total resources available for the support of higher education.
 - i. How can the relative priorities be decided?
 - ii. Are current patterns of private vs public sources of support for higher education appropriate?

The CPUO Subcommittee on Student Aid is currently making a study of some of these matters and will be submitting a report early in December. A brief from the Students'Federation of the University of Ottawa was submitted to the Subcommittee during the course of its work and this document is reproduced in Appendix "E".



- (g) Student Housing.
 - i. What will be the University's requirements in student housing during the next five years?
 - ii. How has this need been determined?
 - iii. What will be the effects on the University's development if funds are not available to permit housing projects of the indicated scale?

In view of the imposition, by the Central Housing and Mortgage Corporation, of a limit on the amount of funds available annually for student residential accommodation, the University was requested last August by the Architectural Services Branch of the Department of University Affairs to provide information on its requirements in this area for the next five years. This information is to be used in an assessment of the overall provincial needs. The data has now been forwarded to the Department of University Affairs and is summarized below.

On-campus accommodation available to students at this University consists of 850 places distributed as follows:

RESIDENCE	BEDS	SINGLE ROOMS	DOUBLE ROOMS
Tabaret Hall	350	182	84
LeBlanc Hall	150	50	50
Stanton Hall	350	98	126

At the present time a 450-bed residence is under construction and is scheduled to be in operation for 1972-73. By 1972, the University's enrolment is projected at 9833 which means that the total on-campus accommodation being provided will be about 13.2%. It is estimated that approximately 4700 single students and 1000 married students will be attending the University from regions outside a radius of roughly 25 miles.



In attempting to analyze the ability of the local community to cope with this need one must recognize that the University of Ottawa is located in a region that already has great difficulty meeting its own needs. In many cases, the quality of the lodging available surrounding the University of Ottawa leaves much to be desired. However, since most students prefer to live within walking distance to the campus the situation has developed in certain instances where rents have been increased in a manner far out of proportion to the accommodation being offered.

No University accommodation whatever is currently available for our married students. Every year they have a terrifying experience of searching for reasonable lodging at an acceptable price. High rise apartments have been built in the region but undergraduates and the majority of graduate students cannot afford to live in them. The construction of the student cooperative residence (Pestalozzi College) about half a mile from the University may help to alleviate this situation for the moment.

If the government is truly concerned about the quality of life of University students, it must accept to provide a living environment conducive to the furthering of our educational objectives. University residences provide our students with the opportunity of meeting and sharing experiences with students from other disciplines.

The prevailing policy of mortgaging residences is seriously affecting a University that has built all of its residences according to this formula. As a matter of fact this formula combined with the operating budget policy of no subsidies for housing, precludes a University from building married student quarters. At current construction rates this University could not rent a one-bedroom apartment in a high rise building for less



than \$200 a month. Students cannot afford such a rent. The only solution, in view of this problem, is to subsidize housing.

The University intends to begin construction of two high rise composite residences. The first to begin in 1972-73 and the second in the following year. Both these residences would house 123 single students in groups of three students to a unit and 125 married divided into 85 one-bedroom apartments and 40 two-bedroom apartments. These additional facilities will not be available until 1974-75 and 1975-76. Furthermore, it must be recognized that such constructions will simply maintain the present situation of insufficient on-campus housing. In order to improve the University's position we would have to undertake a major catching up programme which, under existing conditions, could not be financed.



4. Other Matters

(a) Mission Oriented Research.

Outline of the University's involvement in this area of activity.

The meaning of such much used terms as mission oriented research and applied research will vary with the ideas of the person who uses them. The list of projects which follows has been selected by the Dean of Graduate Studies from among the list of all research grants received by the University from public and private sources. It therefore reflects his present views on what is and what is not mission oriented research.

One point which should be noted is the omission of most of our medical research projects from this list. Although medical research, which has as its mission the discovery of information which can lead to the prevention and cure of illness, is clearly mission oriented research, much of what is supported as, and masquerades as, medical research is in fact part of fundamental biology, chemistry, electronics, etc. Any biological discovery on whatever living organism has potential medical application. indeed. There is scarcely a branch of scientific or technical activity in which progress is not sooner or later directly applicable to medicine. Progress in such areas as electronics, plastics and physics has greatly influenced the techniques of the practice of medicine. Many research projects which bear a medical title and which are supported by an agency which would be expected to support mission oriented medical research projects turn out to be projects of research in fundamental chemistry or fundamental biology. For a list of our medical research projects please consult the list of medical research projects in Canada published by the M.R.C.

Since it seems clear that a considerable amount of research which might be expected to fall within any definition of mission



oriented research is supported by agencies such as the N.R.C., which would not be expected to use the criterion mission oriented in making their awards, it would be unrealistic to limit this list to grants awarded by those bodies which might be expected to restrict their granting activities to research projects directed to the solution of an immediate industrial or social problem. Thus, a study on the effects of permafrost on concrete, supported by the N.R.C., or the project entitled "Les conditions du développement agricole du Québec", supported by the Canada Council, which in each case might be merely an academic exercise for a researcher, would be classed in our list as mission oriented because each could provide answers to problems of immediate importance to Canadian society, particularly Government or industry. On the other hand, the project entitled Study of the needs and resources of correctional services of the Province of Prince Edward Island supported by the Solicitor General of Canada, which would seem to be exclusively mission oriented could well lead to the recognition of certain basic factors to be considered in the organization of any correctional services.



UNIVERSITY OF OTTAWA

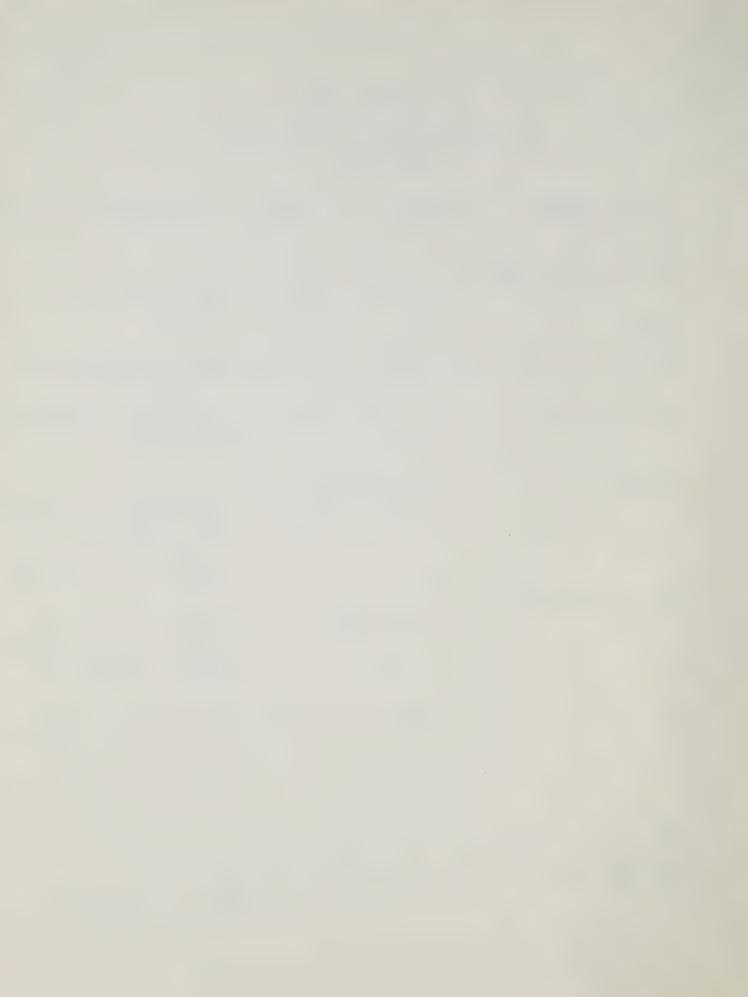
MISSION ORIENTED RESEARCH PROJECTS

1969 - 1970

	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
1	BIOCHEMISTRY			
	Bristol Laboratories of Canada	B. Belleau	\$12,000.	Synthesis of new anti- biotics.
*1	BIOLOGY			
	National Research Council	F. LeBlanc	\$20,000.	Cartographie des pollu- tions atmosphériques.
	National Museum of Canada	S.U. Qadri	\$ 3,000.	Systematics, distribution and ecology of larval cottids.
	National Research Council	P. Weinberger	\$ 7,000.	The effect of vernalizing temperatures on the amino acid, lipid and carbohydrate metabolism of wheat grains and emergent root meristems.
	National Research			
	Council	P. Weinberger	\$ 7,000.	The effect of audible sound frequencies on the growth of cereals with special reference to wheat.
	Mead Grant	P. Weinberger	\$30,000.	The effect of audible and ultrasound frequencies on the growth of economically important plants (a) cereals, (b) forage crops, (c) vegetable crops.
3.	CHEMICAL ENGINEERING			

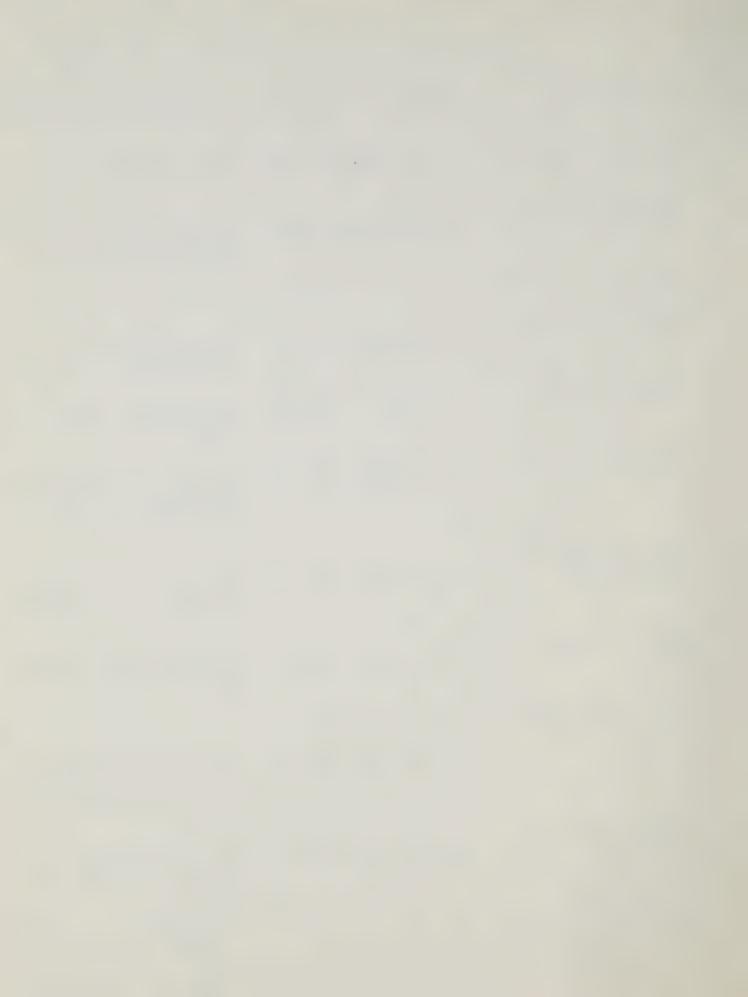
National Research Council

J.A. Ruether \$ 2,000. Effect of Heavy Metal Salt on the Solubility of Oxygen in Hydrocarbons.



of Urban Runoff.

	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
	Department of University Affairs	F.D.F. Talbo	t \$1,500.	Ion Flotation.
	Department of Energy, Mines and Resources	F.D.F. Talbo	ot \$5,300.	Removal of Metallic Ions from Dilute Aqueous Solutions.
4.	CHEMISTRY			
	Defence Research Board	A.D. Westlar	ad \$4,000.	Semiconducting Oxyfluorides.
	Defence Research Board	H.H. Baer	\$3,800.	Chemistry of Nitro Compounds.
	National Research Council	B.E. Conway	\$32,000.	Studies of the Mechanisms of Electrode Processes and Electrochemical Absorption.
	U.S. Army Engineering Research and Development	B.E. Conway	\$5,000.	Electrolytic Oxidation and Reduction of Nickel Hydroxides.
	Defence Research Board	B.E. Conway	\$6,000.	Electrochemical Studies on Fuel Cell Reactions.
/ 6	CIVIL ENGINEERING			
	National Research Council	D.H. Shields	\$3,000.	The Bearing Capacity of Shallow Spread of Footing on Very Dense Granular Soil.
	National Research Council	D.R. Townser	nd \$3,000.	Free Surface Surge Behaviours in Headrace Canals.
	National Research Council	R.G. Warnock	\$6,500.	1) Diffusion in a Boat Wake
				2) Quality and Quantity



slabs for bridges.

GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
Department of			
University Affairs	R.G. Warnock	\$1,500.	Bottom Deposits in the Ottawa River.
National Research Council	G.E.A. Bauer	\$3,500.	 Uplift Resistance of Anchor Foundations.
			2) Forces Acting on Braced Open Cuts in Granular Media.
Department of			
University Affairs	G.E.A. Bauer	\$1,500.	Elastic Settlement of Rigid Footings Located on Leda Clay.
National Research			
Council	C. Berwanger	\$8,000.	A Study of the Low- Temperature Properties of Some Structural Materials.
Ontario Department			
of University Affairs	C. Berwanger	\$10,000.	A Study of Thermal and Shrinkage Produced Effects in Composite Bridges.
National Research			
Council	N.J. Gardner	\$9,000.	<pre>1) Statistical Variability of Concrete Structures;</pre>
			2) Structural Behaviour of Spirally Prestressed Con-Columns.
			3) Full Size Test on a Curved Prestressed Concrete Bridge.
Department of			
University Affairs	N.J. Gardner	\$1,500.	<pre>1) Measurement of Load Spectrum for Highway Bridges;</pre>
			2) Finite Element Analysis of Box Section Bridges.
National Research			
Council	S.F.S. Ng.	\$8,000.	A critical evaluation of the present design criteria of concrete slabs for bridges



	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
	National Research Council	J.D. Scott	\$10,000.	1) Air Solubility in Partially Saturated Soil;
				2) Geotechnical Research Ottawa University New Development (GROUND);
				3) Shear Strength of Ellipsoidal Particles.
6.	CIVIL LAW			
	Conseil des Arts du Canada	V. Bergeron D. Pharand	\$36,000.	Rédaction d'un vocabulaire juridique canadien (JURIVOC) (Common Law - Droit Civil).
7.	COMMON LAW			
	Canada Council	E.S.Binavince	\$0,764.	Legal Effects of Organ Transplants.
8.	ELECTRICAL ENGINEERING			
	National Research Council	G.S. Glinski	\$18,000.	Systems-Microelectronics, Ionic Processes and Biochemical Electronics.
	National Research Council	M. Krieger	\$4,500.	Real Time control of tracking systems.
9.	EPIDEMIOLOGY AND COMMUN	NITY MEDICINE		
	Department of National Health and Welfare	J.J. Day L.C. Neri	\$24,305.91	Prevalence of Chronic Respiratory Disease and possible Determinants in the City of Ottawa.
	Ottawa T.B. and R.D. Association	L.C. Neri	\$5,000.	Prevalence of Chronic Respiratory Disease and possible Determinants in the City of Ottawa.

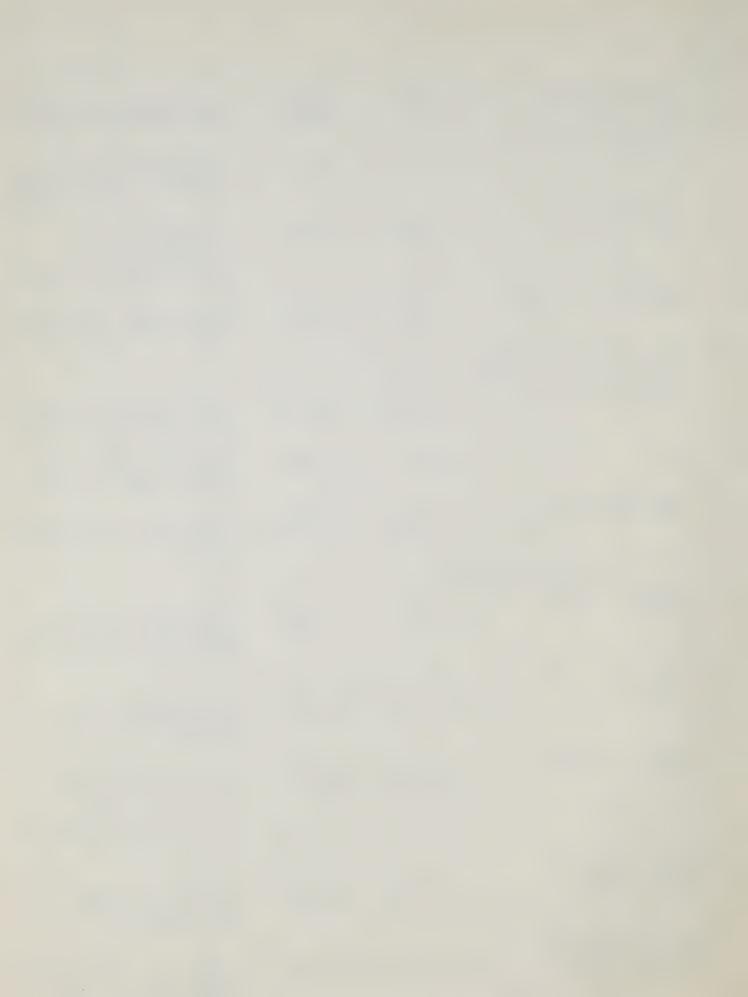


	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
.0.	GEOGRAPHY			
	Comité Consultatif National de la Recherche Géogra- phique	P. Houde	\$1,500.	Réseau postal canadien.
	Comité Consultatif National de la Recherche Géogra-			
	phique	H.Morrissette	\$0,700.	Préparation d'un guide pour l'excursion du nord-ouest québecois - U.G.I. 1972.
	Conseil des Arts du Canada	H.Morrissette	\$2,300.	Remise à jour de la thèse de doctorat: "Les conditions du développe- ment agricole au Québec".
1.	GEOLOGY			
	Geological Survey of Canada	W.K. Fyson	\$1,720.	Relation of minor and major Structures in the Maritime Provinces.
	Geological Survey of Canada	D.D. Hogarth	\$1,720.	Lapis Lazuli Lake Harbuoc.
	Geological Survey of Canada	B.R. Rust	\$1,720.	Carbonate Petrology.
	Geological Survey of Canada	R. Kretz	\$1,720.	Petrology of Crystalline Rocks Yellowknife.
	National Research Council	B.R. Rust	\$3,500.	Sedimentation in Braided River.
	National Research Council	D.S. Cronan	\$5,000.	Geochemistry and Mineralogy of N. Atlantic Deep Sea Deposits.
	Department of University Affairs	B.R. Rust	\$1,500.	Sedimentation History of the St Clair River.

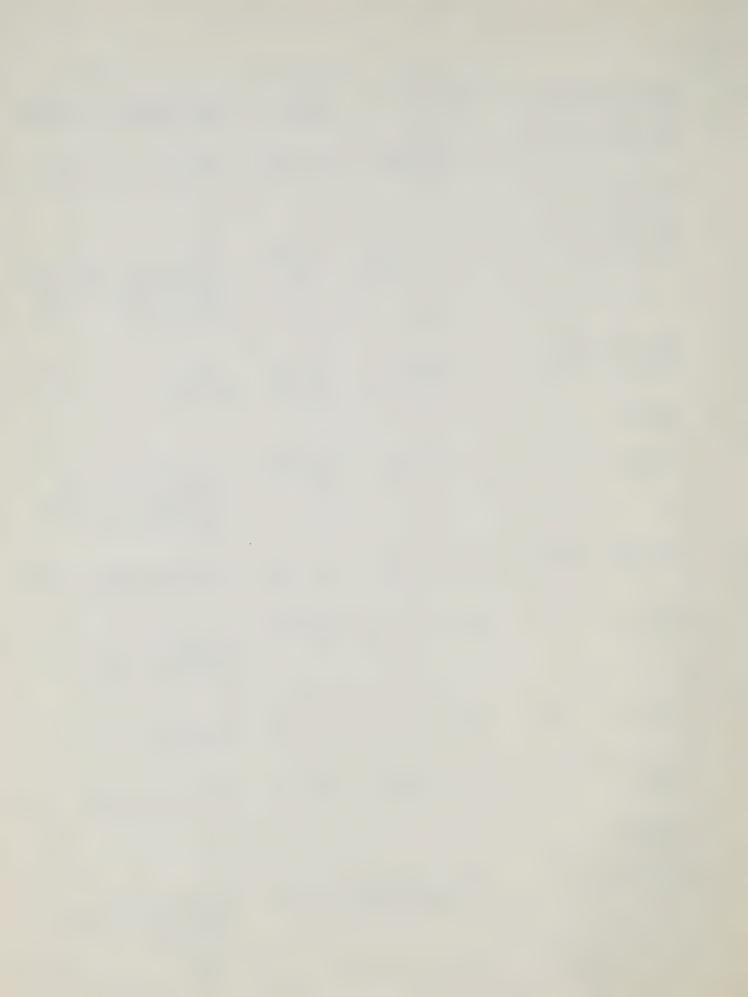


atmosphere.

	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT			
	Geological Survey of Canada	D.S. Cronan	\$3,700.	Geochemistry and Mineralogy of Manganese Nodules. Lake Ontario.			
	Department of Inland Waters	D.S. Cronan	\$1,848.	Geochemistry and Minerology of Ferromanganese deposits.			
	Geological Survey of Canada	O.A. Dixon	\$1,720.	Ordovician - Silurian Carbonates Somerset Isl.			
12.	MECHANICAL ENGINEERING						
	National Research Council	A. Feingold	\$4,000.	Hot workability of steel and light metal alloys.			
	D.R.B.	Y. Lee	\$3,500.	Two-phase Thermosyphon and its application.			
	Department of University Affairs	J. Newman	\$1,500.	Liquid fuel atomization studies.			
13.	MICROBIOLOGY AND IMMUNOLOGY						
	Medical Research Council	R. Iyer	\$4,500.	Infectious antibiotic resistance among enteric bacteria.			
	Medical Research Council	J.C.N.Westwood	1\$10,295.	Distribution of Myxoviruses in domestic animals.			
	Defence Research Board	C.A.Mitchell	\$1,000.	Study of Protective properties against influenza PR8 of specific lactogammaglo-bulin.			
	Defence Research Board	C.A.Mitchell	\$3,000.	Studies of aerosol of viruses and of virus extracts.			
	Defence Research Board	J.C.N.Westwood	1\$11,300.	Rapid identification of virus agents in the			



	GRANTING AGENCY	GRANTEE	AMOUNT .	DESCRIPTION OF PROJECT
	Ontario Department of Health	J.C.N.Westwood P. Heaton	\$24,100.	Virogical Diagnosis.
14.	PATHOLOGY			
	Department of National Health and Welfare	J.S. Campbell	\$8,000.	Long-active injectable progestogen; effects in female reproductive pathology.
	National Cancer			
	Institute of Canada	D. Magner	\$55,100.	Canadian Tumour Reference Centre.
15.	PHYSICS			
	National Research Council	E. Fortin	\$6,000.	Propriétés optiques de transport dans les composés et alliages semiconducteurs.
	National Research Council	G. Lamarche	\$6,700.	Propriétés des Solides aux Basses Températures.
	National Research			
	Council	M.A.R.LeBlanc	\$15,000.	Behaviour and Properties of Type II Super-conductors and Vortex Motion Phenomena.
	National Research Council	J.C. Woolley	\$24,000.	Properties of Alloy Semiconductors.
	Defence Research Board	J.C. Woolley	\$8,300.	Conduction Band Structure of III-V Alloys.
16.	SURGERY			
	Medical Research Council	W.G. Waddell I.J. Vogelfanger	\$6,700.	Contractility and Elasticity of Venous
				Autografts.



GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
Medical Research Council	J.L.Wellington	\$4,775.	Flow Cessation Pressure in the Calf Before and After Arterial Reconstruction of Occluded Major Vessel.
Ontario Heart Foundation	W.G. Waddell	\$4,000.	Selective Left Gastric Vein Diversion.



Ions from Dilute Aqueous Solution.

UNIVERSITY OF OTTAWA

MISSION ORIENTED RESEARCH PROJECTS

1970 - 1971

	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
1.	BIOLOGY			
	National Research			
	Council	F. LeBlanc	\$20,000.	 Cartographie des pollutions atmosphé- riques.
				2) Influence du SO ₂ et du fluor sur la végétation.
				 Autres études écologiques et biogéographiques.
	National Research			
	Council	M.D. Dickman	\$4,000.	Primary productivity and its relationship to pollution in parts of the Ottawa River.
	Department of			
	University Affairs	R.M. Reed	\$2,000.	A study of the effects of Industrial Air Pollution on Forest Ecosystems in the Sudbury, Ontario Region.
2.	CHEMICAL ENGINEERIN	G		
	1 D			
	National Research Council	R.S. Mann	\$17,000.	Kinetics and mechanism of catalytic reactions in environment pollutions and industrial wastes.
	Energy Mines and			
	Resources	T D T T-11-+	# C 000	D
	(Natural Sciences)	r.D.L.Talbot	\$6,000.	Removal of Metallic



				1 % edu die
	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
3.	CHEMISTRY			
	Energy Mines and Resources (Inland Waters)	B. Conway	\$12,200.	
	Defence Research Board	A.D.Westland	\$2,700.	Semiconducting oxyfluorides.
	Defence Research Board	B.A.Morrow	\$4,000.	Spectroscopic studies of chemisorbed species at electrodeliquid interfaces.
	Defence Research Board	B.E. Conway	\$5,000.	Electrolytic oxidation and reduction of nickel hydroxides.
	National Research Council	B.E. Conway	\$32,000.	Studies of the mechanisms of electrode processes and electrochemical absorption. Solvent isotope effects in ionic absorption. Thermodynamics of ionic solution in H ₂ O and D ₂ O. Ellipsometric study of absorbed species at electrodes.
	Defence Research Board	B.E. Conway	\$6,000.	Electrochemical studies on fuel cell reactions.
4.	CIVIL ENGINEERING			
	Department of University Affairs	G.E.A. Bauer	\$2,000.	Minimum Bracing Requirements for Trench Excavation.
	Department of University Affairs	K.T. Broderse	n \$2,000.	Effects of Waste Constituents on the Performance of Biological Waste Treatment Facilities.
	Energy Mines and Resources (Natural Sciences)	D.H. Shields	\$7,950.	Waste Water Disposal by Septic Tile Fields.



GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
Energy Mines and Resources (Natural Sciences)	R.G. Warnock	\$4,000.	A Model for Benthol Oxygen Demand in the Ottawa River.
Energy Mines and Resources (Natural Sciences)	J.P. Jolly	\$4,200.	Changes in Hydrologic Parameter and Water Quality Characteristics due to Urbanization.
National Research Council	D.R. Townsend	\$3,000.	Free surface surge behaviour (in Headrace Canals).
National Research Council	D.H. Shields	\$20,000.	Constant stress load applicator of 25 ton (maximum) capacity.
National Research Council	D.H. Shields	\$5,,000.	The bearing capacity of spread footings on sand.
National Research Council	J.D. Scott	\$7,500.	 Geotechnical Research Ottawa University New development (GROUND). Air solubility in partially saturated soil.
National Research Council	S.S.F. Ng	\$10,000.	 Small and large deflection behaviour of homogeneous and sandwich (isotropic and orthotropic) panels. A critical evaluation of the present design criteria of concrete slabs for bridges.



presentence reports.

	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
	National Research		***	
	Council	N.J.Gardner	\$10,000.	 Analysis and design of highway bridges.
				Soil structure interaction of deep foundations.
				3) Full size test on a curved prestressed concrete bridge.
	National Research	K. Adamowski	\$4,000.	Stochastic Analysis of
			, , , o o o .	hydrologic cycle.
	National Research Council	G.E.A. Bauer	\$4,500.	 Model tests on single and pile groups.
				2) Minimum bracing requirements for trench excavation.
	National Research Council	K.I.Drodersen	\$4,000.	Effects of Waste
			,	constituents on performance of biological waste treatment facilities.
5.	CRIMINOLOGY			
	Solicitor General of Canada	T. Grygier	\$19,000.	The Correlates of
				effectiveness of penitentiary workshops.
	Department of Correctional Services of			
	Ontario	T. Grygier B. Garner		
		O.R.Porebski	\$30,000.	Prediction and typological studies and to validate a previously developed Measure of Treatment Potential of institutions.
	The Donner Canadian			
	Foundation	T. Grygier B. Garner		
		O.R. Porebski	\$40,000.	To develop a predictive device to supplement



	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT			
	Solicitor General	- The state of the		DESCRIPTION OF TROOLET			
	of Canada	R.W. Barrington	\$ 6,034.	Study of the needs and resources of correctional services of the province of Prince Edward Island.			
	Canada Council	L.R.Z. Kos	\$21,600.	Comparative study of juvenile delinquency legislation with particular reference to value of European experience for Canadian legal reform.			
	Solicitor General of Canada	R.W.Barrington	\$58,450.	An action-oriented research on the application of voluntary services in a juvenile court and probation system.			
6.	ELECTRICAL ENGINEERING						
	National Research						
	Council of Canada	W.J.R. Hofer	\$3,500.	Méthode de mesures des caractérisques de transistors entre 1 et 10 6 Gz.			
7.	EPIDEMIOLOGY AND COMMUNITY MEDICINE						
	Energy Mines and Resources (Natural						
	Sciences)	J.S. Mandel	\$9,300.	Trace Elements Content in Municipal Water Supplies and its Relevance to Mortality Rates from Specific Disease Groups.			
8.	GEOGRAPHY						
	Conseil des Arts Du Canada	H.Morrissette	\$2,300.	Les conditions du déve- loppement agricole au Québec.			
	Energy Mines and						
	Resources (Policy and Planning)	H. Gagnon	\$0,600.	L'intensité de l'Utilisa- tion agricole du sol à travers la photo infra- rouge.			
	Energy Mines and Resources (Policy and Planning)	P. Houde	\$1,500.	Réseau postal canadien.			



	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
	Energy Mines and Resources (Policy and Planning)	H.Morrissette	\$0,700.	Préparation d'un Guide pour l'excursion Nord- Ouest Québecois.
9.	GEOLOGY			
	Department of University Affairs	D.S. Cronan	\$1,750.	Geochemistry of Ferromanganese Deposits from Ontario Lakes.
	National Research Council	D.S. Cronan	\$5,000.	Geochemical and Mineralogical investigation of deep sea deposits from the Atlantic and Pacific Oceans.
	Energy Mines and Resources	D.S. Cronan	\$1,365.	Geochemistry and mineralogy of Canadian lacustrine ferromanganese deposits and associated sediments.
	Energy Mines and Resources	O.A. Dixon	\$1,365.	Ordovician-Silurian carbonates of Somerset and Prince of Wales Island, District of Franklin.
	Energy Mines and Resources	W.K. Fyson	\$1,365.	Relation of minor to major structures in the Maritime Provinces. Structural analysis of lowe Paleozoic rocks Mt. Albert area. Gaspé Peninsula.
	Energy Mines and Resources	D.D. Hogarth	\$1,365.	Yttrium silicates; and colour and paragenesis of lapis lazuli, etc.
	Energy Mines and Resources	R. Kretz	\$1,365.	Petrology and Crystalline rocks near Yellowknife, N.W.T



	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT	
	Proper Mines				
	Energy Mines and Resources	B.R. Rust	\$1,365.	Pleistocene stratigraphy of the Gatineau River Valley.	
10.	MANAGEMENT SCIENCES				
	Federal Department of Communications	Sahin Delbruck Debanné	\$11,000.	Optimal Control in the telecommunications industry.	
	Quebec Department				
	of Natural Resources	J. Debanné	\$20,000.	Continental energy policy.	
	Federal Department of Health	Sethi Debanné	\$19,000	Labor relations in Hospitals.	
11.	MECHANICAL ENGINEERING				
	Department of Indian Affairs	n A. Feingold	\$20,000.	Oil spills in the Arctic Tundra.	
	National Research Council	A. Feingold	\$10,000.	Stress analysis in Composite materials. Analytical and experimental study of heat transfer in finned structures.	
	National Research Council	J.A. Newman	\$5,000.	Combustion-generated air pollution.	
	Defence Research Board	Y. Lee	\$3,500.	Preservation of permafrost by means of two-phase closed thermosyphon.	
	Department of University Affairs	V. Lunardini	\$2,000.	Thermal Properties of Permafrost.	
	Department of University Affairs	J.A. Newman	\$2,000.	The Behaviour of Liquid Fuels at High pressures.	



	GRANTING AGENCY	GRANTEE	AMOUNT	DESCRIPTION OF PROJECT
	Energy Mines Resources (Natural Sciences)	Y. Lee	\$5,000.	Temperature changes in river water due to thermal pollution.
12.	MICROBIOLOGY AND IMP	MUNOLOGY		
	National Cancer Institute of Canada	E. Perry	\$9,000.	
	Defence Research Board	C.A.Mitchell	\$3,000.	Studies on aerosols of viruses and of virus extracts.
13.	PHYSICS			
	Defence Research Board	M.A.R.LeBlanc	\$7,500.	Reduction of A.C. Losses in type II superconductors.
	National Research Council	E. Fortin	\$6,500.	Propriétés optiques de transport dans les composés et alliages semiconducteurs
	Defence Research Board.	E. Fortin	\$3,000.	L'amplification du photo- courant à l'aide d'un champ magnétique.



4. Other Matters

(b) Outline of the University's policy on the obligations of individual faculty members.

The University has no firm policies on the obligations of individual faculty members at the present. However, during the past two years the Office of the Vice-Rector (Academic) has undertaken some extensive studies in this area. The information which is being collected and analyzed at the level of departments and not of individuals will be the basis for the formulation of guidelines. Details of the type of data which is involved will be found in Appendix "F".



4. Other Matters

(c) Other matters - to be outlined at the discretion of the University.

BILINGUALISM

As indicated in our submission to the Committee last year the University has a firm commitment to the further development of its policies on bilingualism. This year, for example, second language courses are being offered to all teaching and support staff and their dependents. Of the four hundred and six persons registered ninety-five are taking "Anglais" and three hundred and eleven are taking French. A total of 1890 lecture hours are involved in these courses.

A special Task Force of the Senate was established during the last academic year to review the current state of bilingualism on the campus and to make recommendations for future policies. The data collected in an extensive survey, undertaken by an outside agency (Centre de Sondage operated jointly by l'Université de Montréal and York University), will be analyzed and the results included in the report of the Task Force. A copy of this report will be forwarded to the members of the Committee when it becomes available early in 1971.

EDUCATION

The University's concerns regarding the financing of its programs in Education are well known to the Committee. During the past year the Joint Subcommittee on Finance has undertaken a Special Study on Financing of University Programs in Education and the University looks forward to the establishment of formula weights for Teacher Education programs and to the return to formula grants for our graduate program.



INTER-UNIVERSITY CO-OPERATION IN GRADUATE INSTRUCTION

BETWEEN CARLETON AND OTTAWA UNIVERSITIES

The following policies and procedures are suggested for 1970-1971 to enable students registered at Carleton University to take graduate courses at the University of Ottawa, and students registered at the University of Ottawa to take graduate courses at Carleton.

1. - Admission

The departmental chairman in the home university will request admission for his student from the departmental chairman of the host university. Unless the host chairman agrees, the transfer will not take place. If the host university agrees to accept the transfer student, it should not ask him to meet any further admission requirements.

2.- Fees

The student will pay no fees to the host university. However, it has been recommended by the O.C.G.S. and C.P.U.O. that a fee be paid by the home university (which claims all formula income in respect to the student). The fee proposed by O.C.G.S. is \$ 500 per year course and \$ 250 per half course. The fees will be determined annually before June of each year. For the year 1970-1971 there will, however, be no fees.

3.- Enrollment/Registration

A transfer student will be reported as enrolled in his home university and will be identified by the host university as a "visiting student" and not reported for formula income entitlement.

Transfer students who wish to study at either university on a full-time basis for two or three terms in any 12 month period must be admitted and registered at the University in which they are studying, and will be reported for formula income entitlement by that University.

4.- Transfer of Credits

The home university will accept the grade reported by the host university and will grant appropriate course credit on the student's program.

The following maxima are applicable for students registered for a graduate degree program at either university under above arrangements:



- (a) One full course, or the equivalent, for the Master's degree, and
- (b) two full courses, or the equivalent, for the Ph.D. degree.

5. Residence

Work done as a transfer student should be credited to the residence requirements,

6.- Student Awards

These should not be affected by transfers.

7.- Transfer Procedure

The Visiting Student Transfer Approval Form (copy attached) must be completed for each visiting student.

8.- Library and Laboratory facilities

The library and laboratory privileges ordinarily open to registered graduate students will be granted to visiting students.

9.- Special Cases

The arrangements outlined above do not prohibit the negotiation of alternative arrangements between the two institutions or other cooperative arrangements between any two departments for particular cases.



VISITING GRADUATE STUDENT

Transfer Approval Form

(This form to be initiated by Departmental Chairman of Home University after consultation with the Departmental Chairman of Host University)

Name of Student		Degree sought
Surname	Given name	
Home University		Home Department
Host University		· Host Department
Period of Study as Visiting Stude	ent:	
From	То	
month day year	month	day year
Course(s) requested (name and n	umber, half course	e or full course):
Company and the Management and the control and step and the control and address of the step and		
environmental parameter and their range and and the second are the distributions and the second are the second		
Remarks:		
Approvals:		
		Date
Home University Departmental	Chairman	
		Date
Home University Graduate Dean		
		Date
Host University Departmental Ch	nairman	
		Date
Host University Graduate Dean		

Xeros copies of completed form will be sent by Host University to Graduate Deans, Departmental Chairmen and Chief Accountants of both Universities.



MEMORANDUM OF AGREEMENT

made at the City of Ottawa, in the Regional Municipality of Ottawa-Carleton,

this day of

1970

BETWEEN:

UNIVERSITY OF OTTAWA

hereinafter called "Ottawa"

PARTY OF THE FIRST PART,

AND:

CARLETON UNIVERSITY

hereinafter called "Carleton"

PARTY OF THE SECOND PART.

WHEREAS the parties to this Agreement are institutions of higher learning incorporated by Act of the Legislature of the Province of Ontario, and situate in the City of Ottawa, in the Regional Municipality of Ottawa-Carleton (both hereinafter generally referred to as "University";

AND WHEREAS the advancement of learning warrants the hereinafter provided exchange of students;

NOW THEREFORE THIS AGREEMENT WITNESSETH that in consideration of the mutual covenants hereinafter, the parties hereto have agreed as follows:

- 1.- A full-time registered student at Ottawa may be permitted to follow during any one university term one course at Carleton, and a full-time registered student at Carleton may be permitted to follow during any one university term one course at Ottawa. Such student being hereinafter referred to as a "visiting student";
- 2.- A visiting student, having paid the required fee as a full-time registered student to one of the universities, shall not be required to pay a further fee to follow the course mentioned in paragraph 1.- with the other university. However, the fee if any to be paid by the one university to the other in respect of each of its students taking courses at the other university will be determined on an annual basis before June of each year. For the year 1970-1971 there will be no fee;
- 3.- A full-time registered student must, prior to being permitted to follow such other course with the other university, first obtain the approval of the chairman of the department or director of the school and the authorization of the dean of the Graduate Studies of the university in which he is registered as a full-time student;
- 4.- The chairmen of corresponding departments of each university shall mutually determine the conditions upon which the authorization mentioned in paragraph 3.- shall be granted;
- 5.- A visiting student must be accepted by the university where he is to follow the said course, preferably prior to the first date of registration for full-time students and in no event, later than the last day of the registration of full-time students of the said university;
- 6.- The dean of Graduate Studies granting the authorization mentioned in paragraph 3.- hereof shall signify his authorization by notification in writing to the registrar of each university;
- 7.- The registrar of each university will insure that the name of each such visiting student is



added to the appropriate class list to be distributed to the professors;

- 8.- At the end of each academic year or session, as the case may be, the registrar of each university will notify the other of the name and grade or mark of each such visiting student;
- 9.- This agreement shall come into force on the day of execution and will continue until terminated on the 30th day of June in any year by either party giving to the other written notice of termination at least sixty days prior to such date.

IN WITNESS WHEREOF the parties have hereunto caused their respective seals to be affixed by their duly authorized signing officer on the day and month first hereinbefore mentioned.

UNIVERSITY OF OTTAWA

Per: Taul Hagen

Dean of Graduate Studies

CARLETON UNIVERSITY

Dean, Faculty of Graduate Studies

June 10, 1970



UNIVERSITÉ D'OTTAWA

ECOLE DES ETUDES SUPERIFURES



UNIVERSITY OF OTTAWA

SCHOOL OF GRADUATE STUDIES

A.6

CABINET DU DOYEN

OFFICE OF THE DEAN

MEMORANDUM

To: CHAIRMEN OF DEPARTMENTS

From: P. Hagen

Re. Ottawa University students taking courses at Carleton University - Carleton University students taking courses at Ottawa University.

Because of the means of financing Ontario universities by the Provincial Government, the C.P.U.O. has approved procedures for the payment by one university to a second university of a portion of the formula income received when a graduate student at one university takes part of his studies at a second university.

For this reason, the Universities of Ottawa and Carleton have put in the form of a formal agreement procedures which have been in practice for a number of years.

The transfer approval form attached is in use in all Ontario universities in conformity with an arrangement which permits graduate students at any university to follow graduate courses at any other university.

The unique feature of the Ottawa-Carleton agreement is that it provides for us to continue, as previously, the exchange of courses without any exchange of monies between the two universities.

Enclosed please find a copy of this agreement as well as the procedure to be followed for its implementation. A supply of transfer approval forms is also included. Further forms are available at this office.

I should appreciate if you would bring this matter to the attention of interested students.

Paul Hagen

Paul Huger

Dean

Encl.

8 September 1970



UNIVERSITÉ D'OTTAWA



UNIVERSITY OF OTTAWA

DEMANDE AU BUREAU DES GOUVERNEURS - REQUEST TO THE BOARD OF GOVERNORS

Faculté, École, etc. Faculty, School, etc.

Graduate Studies

Département Department Compte de dépense Expense Account Au budget - In budget
Oui - Yes Non - No

G- 2843

Details:

Veuillez trouver, ci-joint, un projet d'entente entre l'Université Carleton et l'Université d'Ottawa au sujet des cours au niveau des études supérieures suivis à l'Université Carleton par des étudiants de l'Université d'Ottawa ou suivis à l'Université d'Ottawa par des étudiants de l'Université Carleton.

Ce projet d'entente a l'approbation des doyens des Ecoles des Etudes Supérieures des deux universités et ne modifie aucunement la procédure actuellement en vigueur. Il précise la marche à suivre par chaque étudiant et permet de déterminer le montant annuel exigible par chaque université en fonction des subventions octroyées par le Gouvernement ontarien pour tout étudiant gradué suivant un cours à l'une ou l'autre université. Tant que les échanges restent limités et que le nombre des étudiants de l'Université d'Ottawa prenant des cours à Carleton, et réciproquement, reste à peu près égal, l'on ne prévoit pas la nécessité de compensation monétaire.

Paul Hagen

19 mai 1970

Date

Para Hofen

Réservé à l'Administration - Reserved for the Administration

Approuvée telle que présentée.





UNIVERSITE D'OTTAWA -- UNIVERSITY OF OTTAWA

PREVISIONS D'INSCRIPTIONS, ETUDIANTS SOUS-DIPLOMES A TEMPS COMPLET, 1970-75.

PROJECTED FULL TIME UNDERGRADUATE ENROLMENT 1970-75. a

	70-71 ^b	71-72	72-73	73-74	74-75	75-76
ARTS	2416 ^c	2255	2403	2615	2819	3009
Geography (Upper Hons.)	60	66	72	79	87	95
Dietetics	71	90	87	95	102	110
Music	22	40	5 5	60	6 5	70
EDUCATION						
Teacher Training (Elementary)d (Secondary) Grad. Make-up	272 132 36	300 150 30	375 230 35	445 263 35	500 300 40	500 ^e 300 ^e 40
-	30	30	33	33	40	40
LAW - DROIT Civil	294	335	351	381	406	431
Common	226	232 ^f	237 ^f	282	315	360
LIBRARY SCHOOL BIBLIOTHECONOMIE	86	80	-	-	-	-
MANAGEMENT SCIENCES SCIENCES DE LA GESTION						
Commerce International Co-op. Pulic Administration New Program (1st yr. hons.)g New Program (Upper	137 ^c 55 25.	535 55 55 60	624 60 70 87	681 65 80 114	735 65 90 138	788 90 90 140
Yrs. Hons.)	-	_	43	90	102	100
Diploma (Mgt.)	13	40	5 5	65	75	85
MEDICINE-MEDECINE	290	300 ^f	300 ^f	300 ^f	300 ^f	300 ^f
Interns and Residents	240	265	285	310	335	365
NURSING-INFIRMIERES						
Basic (B.Sc.N.)	140	167	186	210	229	254
Post Basic ^h New Program ⁱ	298	100 20	100 44	- 76	93	107
PHILOSOPHY-PHILOSOPHIE	56	42	35	35	37	40



	70-71 ^b	71-72	72-73	73-74	74-75	75-76
PHYS.EDEDUC.PHYS.	450	454 ^e	455 ^e	456 ^e	457 ^e	458 ^e
PSYCHOLOGY PSYCHOLOGIE	24	20 ^f	20	22	22	24
Criminology	34	40	42	44	46	46
SCIENCE AND ENGG. SCIENCES ET GENIE						
Prel., Gen'l, 1st Yr. Hons.	458	475	511	546	579	608
Upper Yrs. Hons.	451	645	692	745	791	832
Engineering	391	430	462	494	5 2 4	550
SOCIAL SCIENCES SCIENCES SOCIALES	309	350	388	426	465	497
TOTAL:	6986	7631	8304	9020	9777	10369
TOTAL LESS						
EDUCATION	6546	7151	7664	8277	8937	9529
TOTAL LESS HEALTH SCIENCES						
PROGRAM	6018	6 7 79	7389	8124	8820	9343



UNIVERSITE D'OTTAWA -- UNIVERSITY OF OTTAWA

PREVISIONS D'INSCRIPTIONS, ETUDIANTS DIPLOMES A TEMPS COMPLET, 1970-75.

PROJECTED FULL TIME GRADUATE ENROLMENT 1970-75.

	70-71	71-72	72-73	73-74	74-75	75-76		
ARTS								
M.A., 1st Ph.D.	251	258	290	310	329	352		
Ph.D.	47	6 5	69	74	79	83		
EDUCATION								
M.Ed., 1st Ph.D.	177	170	170 ^e	170 ^e	170 ^e	170 ^e		
Ph.D.		30	30 ^e	30 ^e	30 ^e	30e		
GEOGRAPHY-GEOGRAPHI	E							
M.A., 1st Ph.D.	29	34	38	44	5 0	55		
Ph.D.	2	2	3	4	5	6		
LAW-DROIT								
M.A., 1st Ph.D.	15	20	40	45	5 5	60		
Ph.D.	-	-	-	5	10	10		
LIBRARY SCHOOL								
BIBLIOTHECONOMIE	7	12	75	100	100	100		
MANAGEMENT SCIENCES SCIENCES DE LA GEST	ION							
New Program	-	20	35.	42	60	70		
Hospital Admin.	48	5 0	60	65	70	75		
MEDICINE-MEDECINE								
M.A., 1st Ph.D.	22	24	27	30	34	37		
Ph.D.	24	18	20	22	23	25		
NURSING-INFIRMIERES	i _	-	. -	-	-	10		
PHYS.EDEDUC.PHYS.	12	. 16	20	23	30	40		
PHILOSOPHY-PHILOSOP	PHILOSOPHY-PHILOSOPHIE							
M.A., 1st Ph.D.	56	51	56	60	63	67		
Ph.D.	9	8	9	10	11	12		



	70-71	71-72	72-73	73-74	74-75	75-76			
PSYCHOLOGY-PSYCHOLOGIE									
M.A., 1st Ph.D.	86	80	88	94	102	108			
Ph.D.	27	20	22	25	28	32			
CRIMINOLOGIE CRIMINOLOGY									
M.A., 1st Ph.D.	41	45	48	51	54	54			
Ph.D.		-	-	4	8	10			
SCIENCE AND ENGG. SCIENCES ET GENIE									
M.Sc., 1st Ph.D.	181	215	246	262	278	293			
Ph.D.	82	85	94	98	104	109			
SOCIAL SCIENCES SCIENCES SOCIALES									
M.A., 1st Ph.D.	73	80	88	96	105	114			
Ph.D.	1	1	1	2	2	2			
TOTAL:	1190	1304	1529	1666	1800	1924			
TOTAL LESS EDUCATION:	1013	1104	1329	1466	1600	1724			
TOTAL LESS HEALTH SCIENCES PROGRAMSJ:	1096	1212	1422	1549	1673	1777			



UNIVERSITE D'OTTAWA -- UNIVERSITY OF OTTAWA

PREVISIONS TOTALES D'INSCRIPTIONS, ETUDIANTS A TEMPS COMPLET, 1970-75.

TOTAL PROJECTED FULL TIME ENROLMENT 1970-75.

	70-71	71-72	72-73	73-74	74-75	75-76
ARTS	2898	2810	3017	3281	3536	3780
EDUCATION	617	680	840	943	1040	1040
LAW - DROIT	535	587	628	713	786	861
LIBRARY SCHOOL BIBLIOTHECONOMIE	93	9 2	7 5	100	100	100
MANAGEMENT SCIENCES SCIENCES DE LA GESTI	27 <u>8</u>	815	1034	1208	1395	1518
MEDICINE-MEDECINE	576	607	632	662	692	727
NURSING-INFIRMIERES	438	287	330	286	322	371
PHILOSOPHY PHILOSOPHIE	121	101	100	105	111	119
PHYS.EDEDUC.PHYS.	462	470	475	479	487	498
PSYCHOLOGY PSYCHOLOGIE	212	205	220	240	260	274
SCIENCE AND ENGG. SCIENCES ET GENIE	1563	1850	2005	2145	2276	2392
SOCIAL SCIENCES SCIENCES SOCIALES	383	431	477	524	572	613
TOTAL:	8176	8935	9833	10686	11577	12293
TOTAL LESS EDUCATION:	7559	8255	8993	9743	10537	11253
TOTAL LESS HEALTH SCIENCES PROGRAM: J	7114	7991	8811	9673	10493	11120



FOOTNOTES

- a. These projections were approved by the Academic Planning Committee of the Senate at a meeting held on October 30, 1970.
- b. Enrolment as of November 1, 1970.
- c. In 1970-71, 1st and 2nd year students in the Commerce program are enrolled in the Faculty of Arts whereas 3rd and 4th year students are enrolled in the Faculty of Management Sciences. Beginning in 1971-72 all students following the Commerce program will be enrolled in the Faculty of Management Sciences.
- d. It is expected that the entrance requirements for the Elementary Teacher Training program will change to include one year of university education beyond the grade 13 level. When this requirement comes into effect it is likely that some change will be made in these projections.
- e. Enrolment curtailments reflect new building program.
- f. Enrolment curtailments are due to lack of space and projections will change if and when space becomes available.
- g. Program recommended for approval by the Academic Planning Committee of the Senate.
- h. 1971-72 is the last year in which new students will be enrolled in the Post-Basic Program.
- i. Program has not yet been submitted to Senate for approval.
- j. Medicine, Nursing and Hospital Administration.



UNIVERSITÉ D'OTTAWA

550, RUE CUMBERLAND



UNIVERSITY OF OTTAWA

550 CUMBERLAND STREET

OTTAWA 2. CANADA

CABINET DU VICE-RECTEUR ENSEIGNEMENT ET RECHERCHE OFFICE OF THE VICE RECTOR
ACADEMIC AFFAIRS

July 15, 1970.

To Deans and Directors of Schools

Under the current system of financial support of universities by the Ontario government, requests for the establishment of new programs must undergo a somewhat elaborate procedure, prior to approval. Within the University's framework, an initial appraisal of such requests is made by the Senate's Academic Planning Committee.

The Academic Planning Committee evaluates proposed programs in the broad perspective of overall academic development. In other words, its task is to consider the possibility of implementing new programs while respecting both the needs of already existing undertakings and the responsibilities derived from the University's planned future commitments.

Moreover, the Committee must bear in mind the level of support that can be expected from the Province. In fact, no new program, whether graduate of undergraduate, is eligible for government financial support unless it receives favourable recommendation by the Committee on University Affairs when it considers the annual brief which is to be submitted by the University.

In practice, these considerations emphasize the importance of establishing priorities among the various requests. The Academic Planning Committee's endeavour in this respect would indeed be greatly enhanced if general outlines of proposed programs presented the required information in a wiform manner. In order to meet this objective, we have devised a form which provides for the description of the proposed program and a statement justifying its establishment, it also permits the presentation of data relating to the new program's budget estimates for the first five years of its operation.



The information contained in this outline is by no means exhaustive enough for a detailed appraisal and more information involving other aspects of the proposed program will be necessary at subsequent stages.

Each faculty or school wishing to initiate a new program in September 1971 should have referred the initial outline of their project to the chairman of the Academic Planning Committee before September 1st, 1970. The form devised for this purpose, serves both graduate and undergraduate requests. I hope that these measure will be of assistance.

Yours truly,

Maurice Chagnon

Vice-Rector (Academic)



DEMANDE DE CREATION D'UN NOUVEAU PROGRAMME: "un apercu".

REQUEST FOR THE ESTABLISHMENT OF A NEW PROGRAMM: "an outline"

FACULTE ou ECOLE:

DEPARTEMENT:

Veuillez compléter les sections "A" et "B" sur des feuilles détachées.

A - DESCRIPTION DU NOUVEAU PROGRAMME:

- Le ou les grades qui couronneront le nouveau programme;
- le ou les domaines de spécialisation qu'offrira le nouveau programme;
- 3. les étapes qui marqueront le développement du nouveau programme.

B - EXPOSE DES FACTEURS QUI JUSTIFIENT LA CREATION DU NOUVEAU PROGRAMME:

- 1. A quels besoins le programme répondra-t-il?
- 2. D'autres universités de l'Ontario ou du Canada offrent-elles un programme semblable?
- Décrivez les traits caractéristiques particuliers à ce nouveau programme

FACULTY or SCHOOL:

DEPARTMENT:

Please complete sections "A" and "B" on separate sheets.

A - DESCRIPTION OF THE NEW PROGRAM:

- 1. The degree or degrees to which the new program will lead;
- 2. the areas of specialization within the new program;
- the schedule of action for the development of the new program.

B - STATEMENT JUSTIFYING THE ESTABLISH-MENT OF THE NEW PROGRAM:

- 1. What needs will the new program answer?
- 2. Do similar programs exist in other universities of Ontario or Canada?
- 3. Indicate unique aspects of this new program.



C - PREVISIONS D'INSCRIPTIONS:

1 - les sources ou les critères sur lesquels se fondent les prévisions:

C - ENROLMENT ESTIMATES:

l - information and criteria
 used in making projections:

2 - le nombre d'inscriptions
 prévues:

2 - projected enrolment:

année		1	2	3	4	5	year		
tudiants ous-gradués	plein temps temps partiel						Full time Part time	under- graduate students	
tudiants radués	plein temps							graduate	
	temps partiel							students	



D - PERSONNEL REOUIS:

1- tableau du personnel additionnel requis:

D - STAFF REQUIRED:

1- table of additional staff required:

anée		2	3	,	1	Vear	
personnėl enseignant	plein temps temps partiel					full time part time	teaching staff
personnel de soutien							support staff

E - ESPACE REOUIS:

1- avez-vous déjà assez d'espace pour abriter le nouveau programme? oui non 2- tableau de l'espace additionnel

E - SPACE REQUIRED:

1- Do you have sufficient space to accommodate this

new program? yes no 2- Table of additional space required:

requis: 5 year année Salles de cours: Classrooms nombre number surface Laboratories Laboratoires: number nombre area surface Study rooms Salles d'étude: number nombre area surface Offices Bureaux: nombre number area surface Others Autres Others Autres:



F - AUTRES RESSOURCES REQUISES:

- 1- prévisions des dépenses en ressources de bibliothèque pour le nouveau programme:
- F OTHER RESOURCES REQUIRED:
 - 1- projected cost of library
 acquisitions for new
 program:

année		J	47	7.3.4.1
dépenses prévues	The second secon			proposed expenses

2- prévisions des dépenses en equipement de laboratoire et autre équipement technique pour le nouveau programme:

2- projected cost of laboratory
 and other technical equipmen
 for new program:

année - veur	The state of the s		2	James de la companya	4	Ę
DETAIL:						
					And the second second	
	:					
total des 10.11	endry Brandsky, og Ok bildilik kv. udark dillin	uro ugun, usanses tistis essensi muhisi-nim-n				
dépenses expens			1			

3- prévisions des dépenses en appareils de bureau, salles de séminar, etc., pour le nouveau programme:

3- projected cost of office, classroom and other furniture for the new program:

ann (a		")	Э	L;	ţ,	7 3 a 12
dépenses prévues	1					proposed expenses



REPORT OF THE "AD HOC" COMMITTEE TO STUDY THE INTEGRATION OF THE DEPARTMENTS OF MATHEMATICS OF THE FACULTIES OF ARTS AND OF SCIENCE AND ENGINEERING.

SUBMITTED BY: Peter Morand

July 15, 1970.

INTRODUCTION

This "ad hoc" Committee of the Senate was established on December 9th, 1967 having as its sole member Dr. A. D'Iorio who was then Chairman of the Department of Biochemistry in the Faculty of Medicine. The purpose of the Committee was:

"d'étudier l'intégration du département de mathématiques de la Paculté des Arts et du département de mathématiques de la Faculté des Sciences" (sic).

When Dr. D'Iorio was nominated to the position of
Dean of the Faculty of Science and Engineering the undersigned
was designated by the Senate (meeting of July 8, 1969) to continue
this study and to submit a report to Senate. In the preparation
of this report use was made of the documentation provided by Dr.
D'Iorio, Professor Gérard Cloutier and the Academic Planning
Office. Several meetings were held with Professor G. Cloutier,
the staff of the Department of Mathematics and General Science,
Deans Debanné, Quirion and D'Iorio, Professor Linis and a number
of other interested individuals including students.

A. Existing Situation

1. University of Ottawa

At the present time the University has a Department of Mathematics and General Science in the Faculty of Arts and a Department of Mathematics in the Faculty of Science



and Engineering.

The Faculty of Arts offers a Baccalaureate in Arts with concentration in Mathematics. For this concentration* some of the mathematics courses are offered by the Department of Mathematics and General Science and the balance are offered by the Department of Mathematics. Certain mathematics courses are required for other programs in the Faculty of Arts and can also be taken as electives. A detailed analysis of the courses offered by the Department of Mathematics and General Science during the last two years is given in Appendix I. It should be noted that the Department only gives courses in subjects closely related to mathematics and not in subjects which could be considered as "general science". In 1968-69 most of the students taking courses offered by the Department of Mathematics and General Science were intending to qualify for Baccalaureates in Commerce (Business Administration). With the creation of the Faculty of Management Sciences in 1969-70 and the subsequent assignment of third and fourth year students in the Commerce program to this Faculty there are now considerably fewer students from the Faculty of Arts taking courses offered by the Department of Mathematics and General Science. There is a significant number of students in the Faculty of Social Science taking courses given by the Department of Mathematics and General Science and relatively few from Nursing and Physical Education. Very few students in the Faculty of Arts enroll for the Baccalaureate with concentration in Mathematics.

^{*} Requirements are: MA1402 or 2302 or 2380 or 2822, 1222, 1300, 2320 or 2322 AND 2324 2342 or 2370, 3000.



As of July 1, 1970 the full-time teaching staff of the Department of Mathematics and General Science consisted of two full professors, two associate professors and one lecturer.

The Faculty of Science and Engineering offers a
Baccalaureate in Science with Major or Honours in
Mathematics. The Department of Mathematics offers all
the mathematics courses for these programs and also
provides the mathematics courses for the Baccalaureate
programs in Biochemistry, Biology, Chemistry, Chemical
Engineering, Civil Engineering, Geology, Computer
Science, Electrical Engineering, Mechanical Engineering
and Physics. In addition, the Department of Mathematics
provides three courses to students in Social Sciences,
and seven summer session courses. Next fall nine
courses will be given through the Extension Department.
The Department also has an active graduate program for
students at the Masters and Ph.D. level.

During 1969-70 the Department of Mathematics in the Faculty of Science and Engineering had three full professors, four associate professors, ten assistant professors, one lecturer and nine part-time lecturers involved in teaching formal courses.

2. Other Universities

The fact that there are separate Faculties of Arts and of Science at this University and that the former was established first probably contributed to the development of a department within each Faculty for the teaching of mathematics courses.



D . 4

Appendix II indicates the situation which prevails as regards mathematics in a number of other Canadian universities. Few precedents could be found for the existence of two departments of Mathematics in any Canadian university although, of course, duplication in a number of areas exist at universities with satellite campuses, affiliated junior colleges, etc. Also, in some universities there exist specific structures for the teaching of pure mathematics and applied mathematics.

- 4 -

B. Analysis of the Situation.

As it stands now the Department of Mathematics and General Science is primarily involved in the teaching of service courses to students in other departments. Of the latter the Department of Commerce, with a relatively large number of students, has been a major "client". This Department was formerly in the Faculty of Arts but as of July 1, 1969 it became part of the Faculty of Management Sciences.

Current developments in the orientation of the University's academic programs indicate that requirements for service courses will increase in number and, more significantly, in variety. For example, the Masters program being considered for the Faculty of Management Sciences may well include courses in mathematics which could be taught by a department of mathematics. During the next few years it is very likely that service courses in mathematics will be primarily in the areas listed below in the order of decreasing requirements:

- 1. Extension and summer session
- 2. Faculty of Management Sciences
- 3. Faculty of Arts (B.A. concentration, options)
- 4. Faculty of Social Sciences



- 5 - D.5

The question of having two departments within the University involved in the teaching of mathematics courses has been a matter of concern for some years. In the University's Annual Report for 1965-66 the question was raised as to whether or not mathematics courses should be taught only by the Department in the Faculty of Science. The professors in the Department of Mathematics and General Science are well aware of this state of affairs and would undoubtedly like to see the situation resolved one way or another. The concerns of the Department in this regard are expressed by the Chairman in his annual report for 1969-70 submitted to the Dean of the Faculty of Arts. Furthermore, the Chairman of the Department of Mathematics and General Science recorded his views on the matter in a letter which he sent to me on December 19, 1969 and a copy of which is attached as Appendix III.

Although it would be difficult to dispute the aims formulated in Father Cloutier's letter pegarding the teaching of service courses the question still remains as to whether these courses should be taught by one or two departments. The fact that there is almost no contact in academic matters between professors in the two departments I would consider to be more a matter of attitudes and human relationships rather than of physical environment. During the course of this study I quickly became aware that the status of the Department as a whole is also involved. If the University were to consider maintaining both departments some fundamental changes would have to be considered in view of the current orientation of the Department of Mathematics and General Science. It is clear that this is the most appropriate time to consider whatever changes may be required in policy for the teaching of mathematics courses at this University.



- 6 - D.6

C. Recommendations

It is recommended that:

- 1. As of July 1, 1971 the Department of Mathematics and General Science cease to exist and that regular and service courses in mathematics be taught by the Department of Mathematics in the Faculty of Science and Engineering.
- 2. Requirements in other disciplines for mathematics courses be communicated to the Chairman of the Department of Mathematics well in advance of the academic year concerned.
- 3. Whenever specially oriented courses are required, the course content is to be determined jointly by the Department of Mathematics and the Department, School or Faculty requesting the course. Presentation of the course for Senate approval will by the Department, School or Faculty offering the program.
- 4. The B.A. with concentration in Mathematics be maintained and the possibility of establishing a related Honours program be explored*.
- 5. Whenever service courses are taught to students in locations which may be relatively far removed from the Department of Mathematics, arrangements be made for the professor teaching the course to be available to the students outside his formal teaching hours.

^{*} Many universities offer both B.Sc. and B.A. Honours programs in Mathematics.



SUBMISSION TO THE STUDY COMMITTEE

ON OSAP AND CORSAP

ESTABLISHED BY THE OFFICE OF

THE ASSISTANT ACADEMIC VICE-RECTOR

UNIVERSITY OF OTTAWA

Office of the President Commissioner of Public Relations and Information Office of the Commissioner of Representation La Fédération des Etudiants, Université d'Ottawa



June 2, 1970.

TO WHOM IT MAY CONCERN:

The aim of this submission is twofold. Primarily, we have examined the OSAP programme and suggested either major or minor policy or practice changes where necessary.

Regarding CORSAP, it must be said that we suffered from a real lack of data concerning the further areas of research which the Cook-Stager Report itself prescribed. Our brief examination of CORSAP no doubt suffers from this and other limitations.

We would note as well that many of our views have already been voiced through our University's representative on the Ontario Committee on Student Awards.

Hugh Segal President Michel Leduc Commissaire à la Représentation



THE ONTARIO STUDENT AWARDS PROGRAMME

STATED AIMS OF THE PROGRAMME

The programme's aim "to provide opportunities for students of this Province who lack adequate resources to pursue postsecondary education" appears to delineate a far ranging assistance programme for the students of Ontario. Yet, there appears to be some ambivalence here. Representatives of the Department of University Affairs have repeatedly stated that the programme is aimed at removing financial barriers to higher education. Yet, one cannot presume to do this successfully without examining the relationship between one's intellectual development and growth (which would entitle one to academic eligibility) and one's family income during the formative years. The programme now is aimed simply at assisting those whose family has been sufficiently high during the formative years to provide the stimuli which result in the motivation to attend post-secondary education. The programme, as well, is aimed at assisting those who can afford the non-productive period (financially) that post-secondary education involves. It would appear to us, therefore, that the programme is aimed, not really at "students of this Province who lack adequate financial resources to pursue post-secondary education" but rather at those students of this Province, who, having come from families with incomes high enough to facilitate sound primary and secondary education, and who, after having been exposed to a cultural environment of sufficient depth to motivate them towards post-secondary education, need financial assistance for the social and academic costs of post-secondary education.

while the Province is no doubt aware that those who are motivated towards post-secondary education probably constitute a segment of the relatively privileged group of our citizens, it is obviously impractical at this time for the Province to consider the type of student assistance programme which attempts



to get at the child who is faced with disadvantaged development opportunities at the primary or secondary level. Nevertheless, this type of programme should not be outside the range of possibility for a Province that is truly committed to equality of opportunity for every sector of our population.

ASSESSMENT OF RESOURCES

One of the basic requisites for success in the OSAP programme is a fair and meaningful process of assessment of the financial resources of the applicant. In this regard we would recommend the following considerations with a view to "tightening up" the assessment procedure:

- a) The Province should assess student resources, in which the family resources that are pertinent to the individual's education and social costs should be assessed. The Province's aim here should be a recategorization of the form so that the applicant is forced to realize the relationship between family income and his own educational experience.
- b) The Province should seriously reconsider qualification "C" for the group "B" or independent student. We take strong issue with this qualification, as it allows students, simply by virtue of having successfully completed a certain amount of years, to divorce themselves from those resources received from the family, and thereby be assessed as needing more assistance. It is our view that, even after so called "independence", the individual should be assessed within the total context of his financial situation (including parental capacity to contribute).

We would, however, suggest that a horizontal assessment of the family's contribution (over four years) should be done. A reasonable maximum should be established, related closely to the family's income at the time of the individual's



independence. This maximum should constitute the point after which no further familial contribution is expected.

- c) The Province should clearly be expected to examine the \$8.00 miscellaneous cost allowed in its cost assessment.

 One need only speak to any student to ascertain the unrealistic nature of the \$8.00 figure.
- d) One's ownership or principal use of a yacht, motorcycle, aircraft or other motorized vehicle should surely be of as much importance as an automobile in terms of assessing resources.
- e) We would reiterate that a group "B" students resources should not be assessed without the context of the total resource picture of the family. If the programme is aimed at dealing with "financial need" the "independent student" must also have to prove need within the total support and resource context.
- f) Scholarships and academic awards should clearly be deducted from the total award, if we are to be consistent with the aims of OSAP. However, it is of major concern to us as to whether it should continue to be deducted from the grant portion. While we do not feel that an academic award's financial implications should be ignored, to deduct it from the grant portion is to almost penalize the award recipient. Surely, we should examine the feasibility of deducting it from the loan portion of the total award to the student.
- g) The Province could, most probably, save itself quite large sums of money were it to publicize those measures taken to verify those claims made by applicants. If the students involved complain about one element of OSAP consistently, it is that they feel those who do not need funds falsify in order to receive funds. While a certain amount of this



type of complaint can be expected with or without grounds, we can not help but wonder what several well publicized cases of a thwarted attempt at fraud might do for the plan and the provincial treasury.

OSAP AS A PROGRAMME AIMED AT ENCOURAGING HIGHER EDUCATION

There is very little question in our mind as to OSAP's success as a service of encouragement for the students of this Province. Yet, it would seem less than wise for a Province so totally committed to the support of operating and capital costs for post-secondary institutions to remain satisfied with OSAP as it stands today. We do not believe that an increase in the amounts of money is necessarily a critical factor in increasing the programme's effectiveness.

We are concerned with an education programme which should and must begin in the pre-secondary phase of education. We are speaking of an education programme which must go beyond the child and his academic milieu. We must be bold enough to go to the parents and try to ensure their awareness vis-à-vis OSAP. While we might assume that any taxpayer in Ontario is quite aware of the Province's commitment to education, we should try and establish clearly that the commitment includes those from the disadvantaged home as well.

In this regard, we would recommend that:

The parents or guardians of all Ontario residents registered in recognized secondary schools of the Province be required to complete a government questionnaire stating whether or not they intend to encourage their child to attend a post-secondary educational institution. The questionnaire should be filled in before the child enters level ten. Those who indicate no intention to encourage their child should be encouraged to state exactly why. Guidance officers should then, with the assistance of the Province, insure that those who are motivated by financial



considerations are made quite aware of the financial assistance available.

It is our view that OSAP has succeeded quite well in its established aims. Nevertheless, the programme's improvement must be linked directly to the Province's preparedness to reappraise the programme on a regular basis with fresh and bold perspectives.

CORSAP

THE COOK-STAGER REPORT

The essential concern of the report, i.e., that society must begin to view its educational expenditures with a view to other priorities of an equally pressing nature, is something with which it would be extremely hard to disagree. Moreover, the need for a re-evaluation of educational spending at a time when escalating costs appear to be dominant in the minds of Department of University Affairs officials, does not seem either unfair or premature.

The question remains, however, as to whether or not the existing OSAP programme must be scrapped for a totally loan-oriented programme. If there is any danger here, it is in approaching the problem exclusively from the point of view of the Treasury Board's fears, or, on the other hand, exclusively from the perspective of new need or objectives of a student financial aid programme.

It is clear that the people of the Province have to make a further decision as to the priority with which they are prepared to view further educational expenses. It is clear, moreover, that unless those who sit in the legislature are prepared to bring this issue clearly to the people, civil servants and Deputy Ministers will be forced to make decisions on the basis of priorities established through consultation



with pressure groups or representative committees. In terms of a Province that should be establishing priorities with the active participation of the citizenry at large, this is obviously less than desirable.

However, within the terms of reference of those elected at present, and their commitment to universal accessibility as well as the obvious reticence of the Treasury Board to embrace an open ended grant programme for any great length of time, the principle of CORSAP seems appropriate. There are, however, several qualifications which we would tack on to this evaluation.

1. THE "FORGIVENESS" FACTOR MISPLACES INCENTIVE

Although some fragment of a grant programme is allegedly retained through the "forgiveness" portion of the programme, there appears to be a major questioning of existing reasoning behind many a financial assistance programme.

We would frankly differ with those who assert that the potential forgiveness which one may enjoy if one fails to succeed financially after graduation can counter the lack of "free money" during the financially non-productive years during the path to a degree.

2. THE REQUISITES OF CORSAP

The length of the type of education programme that could make CORSAP justifiable in terms of widespread acceptance and comprehension would appear to place the adoption of CORSAP in the distant future. Conversely, a rapid adoption of CORSAP without a proper education programme would simply not be justifiable.



TEACHING STAFF INFORMATION 1570-1911

REASEIGNEMENTS PERSONNEL ENSEIGNANT 1970-1571

Renseignements requis avant le: 15 octobre, 1970

Refournez a: Cabinet du Vice-Recteur Enseignement et Recherche Planification et Services

Date:

Académiques

Information required before: 15 October, 1970

Return to:

Office of the Vice-Rector

Academic Affairs

Academic Planning & Services

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Signature



UNIVERSITÉ D'OTTAWA

550, RUE CUMBERLAND



UNIVERSITY OF OTTAWA

550 CUMBERLAND STREET

OTTAWA 2, CANADA

CABINET DU VICE-RECTEUR ENSEIGNEMENT ET RECHERCHE

OFFICE OF THE VICE RECTOR
ACADEMIC AFFAIRS

ANASETGLETTS - PLRONNUL ENGRICHANT (1970-71)

PLACETRA ST ME TREPRESENTATION (1870-M1)

LE "ALASEIGNEMENTS-PERCONNER INSEIGNANT"

Toutes les formules doivent être remplies par le directeur de département. Les renseignements doivent être dactylographiés. Lorsque des explications sont nécessaires, elles doivent être données sur une feuille séparée.

Les formules doivent être renvoyées au Bureau de Planification et Services académiques le 15 octobre, au plus tard, après avoir été dûment remplies.

NOM ET RANG

Ces renseignements figurent sur l'étiquette. Veuillez vérifier leur exactitude et corriger toute erreur. Si un membre du personnel enseignant (exercice complet ou à exercice incomplet) de votre département (autre que les techniciens et étudiants diplômés employés comme démonstrateurs ou correcteurs) n'a pas été inscrit sur la liste, veuillez utiliser une des formules supplémentaires.

DIRECTION DE THESE

Indiquez le nombre de thèses dirigées par le professeur, dans la case appropriée.

"Sous-grad." réfère aux programmes d'études sous-graduées pour lesquelles les étudiants, faisant leur dernière année de spécialisation généralement, doivent préparer une thèse pour satisfaire aux exigences de ce programme.

INSTRUCTIONS FOR THE COMPLETION OF "TEACHING STAFF INFORMATION" FORM.

The forms are to be completed by the departmental Chairman. The information should be typed. When further explanations are required these should be included on a separate sheet.

The completed forms should reach the Academic Planning and Services Office before October 15, 1970.

NAME AND RANK

This information is supplied on the sticker. Please verify that it is accurate and correct any errors. All academic personnel (both full-time and part-time) from your department (excluding postdoctoral fellows, technicians and graduate students who may be employed to demonstrate or correct papers) should have been listed. If any are missing, please use the extra forms provided.

THESIS SUPERVISION

The number of theses supervised by each professor should be indicated in the appropriate place.

"UNDERGRAD." refers to undergraduate programs in which students, usually in their last year honours, prepare a thesis to complete their program requirements.



Si un étudiant est dirigé par plus d'un professeur, chaque professeur ne doit être crédité que pour la partie de la thèse dont il s'occupe.

Si la case "autres" concerne le professeur, donnez les explications nécessaires sur feuille séparée.

AUTRES RESPONSABILITES

N'indiquez dans cette section que les responsabilités affectant <u>la tâche</u> normale d'enseignement du professeur.

La moyenne d'heures/semaine de travail, devrait être calculée sur une période de 48 semaines. Si elle est calculée sur une période différente, veuillez l'indiquer et joindre des explications. La colonne intitulée "code" est réservée à l'administration, n'y inscrivez rien.

TITRE DU COURS

Employez le nom officiel du cours. Si l'espace n'est pas suffisant, utilisez des abbréviations lisibles. Les titres de cours ne référant qu'à la direction de thèses ne doivent pas être mentionnés.

Le titre des cours n'impliquant aucun enseignement formel de la part du professeur (e.g. lorsque les professeurs ne sont qu'auditeurs) ne doit pas être indiqué.

Si deux classes se rencontrent à la même heure dans une même salle (e.g. XY4000 et XY5000 sont en fait le même cours pris par des étudiants de 4ième année et des étudiants diplômés mais le numéro de code est 4000 pour les étudiants sous-diplômés et 5000 pour les étudiants sous-diplômés et 5000 pour les étudiants diplômés), n'indiquez qu'un titre et qu'un numéro de code; inscrivez l'autre dans la liste pour laquelle vous trouverez des explications au paragraphe suivant.

Veuillez indiquer le titre des cours offerts par votre département cette In cases where a student is being supervised by more than one professor, each professor should be credited only with the appropriate fraction of a thesis.

If the item "others" is used, please explain.

OTHER RESPONSIBILITIES

This section includes responsibilities which affect the professor's normal teaching load.

The average number of hours/week should be calculated over 48 weeks, if this is not the case please indicate and explain. The column "Code" is for office use and should be disregarded.

COURSE TITLE

The official name of the course should be used. If the space is too small, a readable abbreviation should be used. Any course title which involves nothing other than thesis supervision is not to be included.

Any course title which involves no formal teaching on the part of the individual in question (e.g. seminars attended by staff members) should not be included.

If two courses meet in the same room, at the same time (e.g. XY4000 and XY 5000 is a course taken by 4th year and graduate students, it is only one course but for the undergraduate a 4000 code is used and a 5000 for the graduate) use only one course title and course code. Include the other one in the list which is explained in the following paragraph.

Please list and explain any courses given by your department, this year,



année et inscrits sur la formule d'aucua de vos professeurs et joignez-y des explications.

LANGUE D'ENSEIGNEMENT

Veuillez indiquer en quelle langue le professeur donne son cours ou sa partie de cours; pour cela, servez-vous des lettres suivantes:

F - FRANCAIS

E - ANGLAIS

X - AUTRE LANGUE

Si vous avez employé la lettre "X", veuillez donner des explications.

CODE DU COURS

Utilisez le numéro de code en entier, c'est-à-dire que si le cours se divise en plusieurs sections, indiquez-le.
Vous devez employer la même codification que celle utilisée pour obtenir des listes officielles de classe du Centre de calcul.

NOMBRE MOYEN D'HEURES/SEMAINE, NOMBRE TOTAL DE SEMAINES ET %

Pour n'importe quel cours ou section de cours, le pourcentage total indiqué dans la colonne % devrait être 100.

Dans l'exemple suivant, le cours MA 1026 est partagé entre le professeur "X" et le professeur "Z". (Les renseignements concernant les deux professeurs figurent sur la même page pour faciliter l'explication). Chaque professeur est chargé de 50% du cours; le professeur "X" passe une moitié de ses 50% en cours magistraux et l'autre moitié en séances de laboratoire; le professeur "Z", lui, utilise la totalité de ses 50% pour des séminaires.

Les colonnes "nombre total de semaines" et "nombre moyen d'heures/semaine" n'ont aucun rapport avec la colonne "%"; elles réfèrent au cours lui-même et non à la b.r. des cours dont le professeur "X" ou le professeur "Z" est chargé. "Le nombre total de semaines" est le total de toutes

which have not been credited to any of your teaching staff.

LANGUAGE OF TEACHING

In this space, please indicate the language in which the individual in question teaches his part of this course by using the following letters:

F - FRENCH

E - ENGLISH

X - OTHER

If "X" is used, please explain.

COURSE CODE

The full code should be used, i.e. if the course has sections, these should be distinguishable. The code used should be the same employed to obtain class lists from the Computing Centre.

AVERAGE NUMBER - HOURS/WEEK, TOTAL NUMBER OF WEEKS AND %

For any given course or section of a course the total of the % column must be 100.

In the following example course MA1026 is given jointly by Professor "X" and Professor "Z". (For explanatory purposes, both Professors appear on the same page). Each professor is responsible for 50% of the course. Professor "X" gives ½ of his 50% in lectures and ½ in labs. Professor "Z" gives all of his 50% in seminars.

The columns "total no. of weeks" and "average no. of hours/week" are independent of the "%" column. They refer to the course, and not to either Professor "X" or Professor "Z's" share of the course. The "total no. of weeks " is the total of all the weeks



les semaines pendant lesquelles le cours a eu lieu. Si le cours était étalé sur un nombre réduit de semaines (ex. 2 semaines pour "surveying")indiquez ce nombre-là.

Le "nombre moyen d'heures/semaine" et le nombre total d'heures pendant lesquelles le cours a été donné par ce professeur et les autres professeurs qui étaient en charge d'une partie du cours) divisé par le nombre de semaines pendant lesquelles le cours a été donné.

in which the course is given. If the course was concentrated in a small no. of weeks (e.g. 2 weeks for "surveying" this is the number that should appear.

The "average no. of hours/week" is the total no. of hours that this course was given by this professor as well as the other professors who had a share in it divided by the number of weeks the course was given.

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Ainsi, si le "nombre moyen d'heures par semaine" (dans notre exemple) était multiplié par le nombre total de semaines (30, dans notre exemple) et le résultat multiplié par 25% (pour la première ligne de l'exemple précédent), le résultat final représenterait le nombre d'heures de cours données par le professeur "X" pour le cours en question. Si l'on procédait de la même façon pour les deux autres lignes et qu'on ajoutait les trois résultats finals, on obtiendrait le nombre total d'heures de cours données pour MA1026.

GENRE DE COURS

Dans cette colonne devrait figurer un chiffre compris entre 1 et 5.

- l cours magistraux
- 2 séances de laboratoire
- 3 séminaires
- 4 enseignement par équipe
- 5 surveillance de l'internat
- 6 autre genre de cours

Thus, if the average no. of hours per week (in this example, 5) were multiplied by the total no. of weeks (in this example 30) and the product were further multiplied by 25% (for the 1st line of the above example the final product would represent the no. of lecture hours of the course given by Professor "X". If the same operation were repeated for the two remaining lines and the three end products added, one would arrive at the total number of hours of MA1026.

TYPE OF COURSE

This column is to be filled with one of the following codes:

- 1 lecture
- 2 lab
- 3 seminar
- 4 team teaching
- 5 supervision of students in training
- 6 other



Si vous utilisez les chiffres 4,5 ou 6, veuillez donner des explications.

SALAIRE SUPPLEMENTAIRE

Cette colonne ne concerne que les professeurs à exercice complet. Inscrivez un "X" dans cette colonne sur la formule des professeurs recevant un salaire supplémentaire pour un cours particulier (le "X" doit être placé sur la même ligne que le titre du cours en question.

If the codes 4, 5, or 6, are used, please explain.

SUPPLEMENTARY PAY

This applies only to full-time staff. If any professor receives supplementary pay for this particular course mark an "X" in this column.





